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STATE OF ILLINOIS
DWIGHT H. GREEN, *Governor*
DEPARTMENT OF REGISTRATION AND EDUCATION
FRANK G. THOMPSON, *Director*
DIVISION OF THE
STATE GEOLOGICAL SURVEY
M. M. LEIGHTON, *Chief*
URBANA

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ILLINOIS PETROLEUM

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OIL AND GAS DEVELOPMENT IN ILLINOIS IN 1940*

By

ALFRED H. BELL AND GEORGE V. COHEE

ILLINOIS produced 146,788,000 bbl. of oil in 1940, or nearly 11.0 per cent of the total for the United States, and ranked fourth among the oil-producing states. Its production was only slightly less than that of Oklahoma, which produced 11.5 per cent of the national total. Illinois' production in 1940 represents an increase of 55 per cent over the previous year, when it amounted to 94,912,000 barrels.

The development of the Devonian limestone in the Salem and Centralia fields is largely responsible for the increase in production during 1940. Production from the Devonian limestone in these two fields was estimated to be 36,698,000 bbl., or 25 per cent of the state's total production (Table 1). The increase in production during June, when the state's daily average production attained a peak of 518,200 bbl. for the week ending June 29, was due to the Devonian production at Centralia (Fig. 1). The initial production of the best Devonian wells in the Centralia field was as high as 12,000 bbl. in 24 hr. Daily average production in Illinois for 1940 was 400,000 bbl. of oil, but actually daily production fluctuated widely during the year. At the beginning of 1940 daily production was approximately 330,000 bbl. During the first half of the year it increased irregularly to the peak in June mentioned above and as the prolific Devonian producing areas were drilled up, the state's daily production declined rapidly during July and contin-

ued to decline, although more slowly, until the end of the year, when the daily production was approximately 325,000 bbl. The daily average production per well in the new fields at the end of the year was approximately 40 bbl. (Fig. 1).

Oil from the Devonian was also produced in the Bartelso field, Clinton County, the Sandoval field, Marion County, and the Irvington field, Washington County, bringing the estimated total production from the Devonian limestone to about 26 per cent of the state's total production. The remainder was obtained largely from the Mississippian system.

About 2 per cent of the total was from Pennsylvanian and Ordovician strata. The decline in the Devonian limestone production has been so rapid that the 1941 output from this system will probably be only a small fraction of that of 1940 unless large new reserves are discovered.

The "Trenton" (Ordovician) limestone has been tested in two wells in the Centralia field and both were small oil producers at a depth of about 4000 ft. The "Trenton" also was found productive in the Salem field at a depth of 4500 ft. (Table 5). The initial production of the discovery well, which was completed shortly after the end of the year, was 130 bbl. on pump. Other wells drilled early in 1941 had initial productions averaging 172 barrels.

The outlook for 1941 is for a continuation of drilling activity in Illinois, but at

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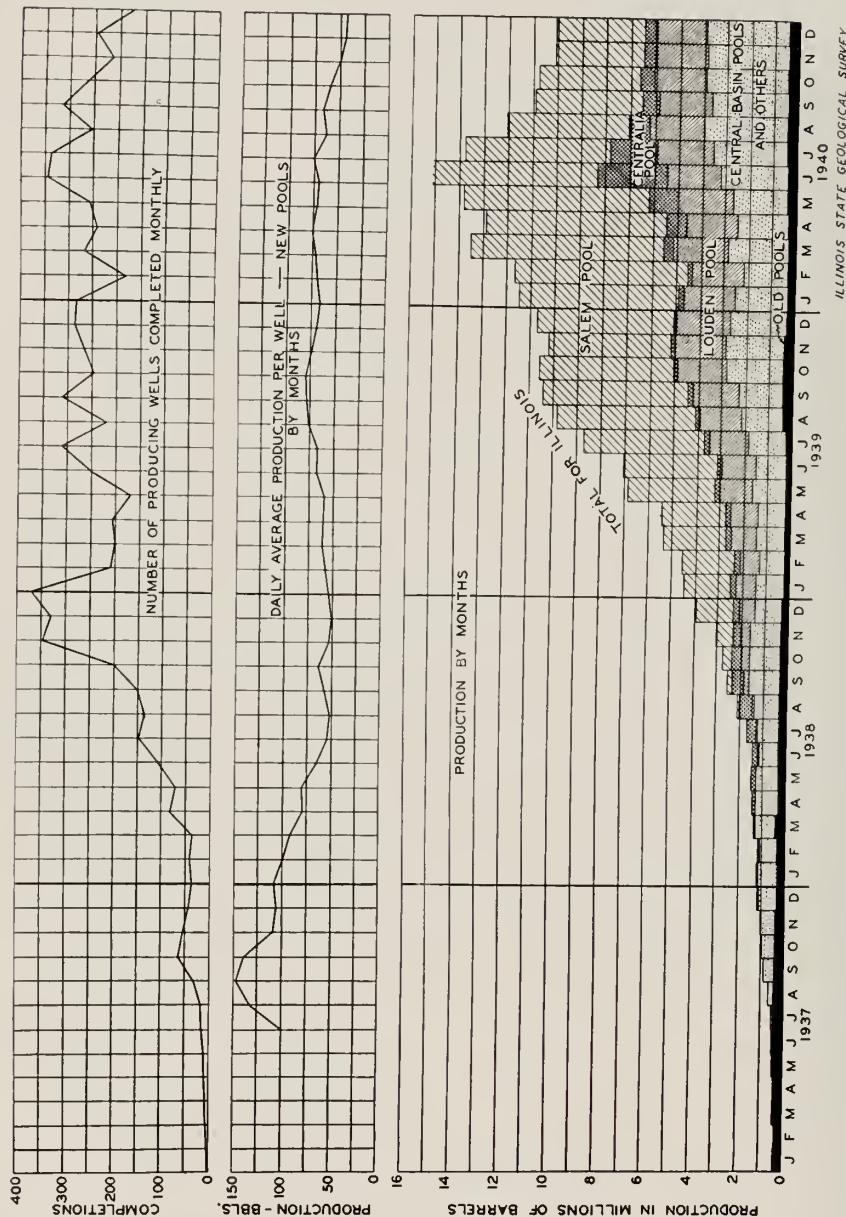


FIG. 1.—PRODUCTION, DAILY AVERAGE PRODUCTION PER WELL, NUMBER OF PRODUCING WELLS COMPLETED MONTHLY FROM 1937 TO 1940.

ILLINOIS STATE GEOLOGICAL SURVEY

a declining rate (Fig. 1, upper curve). The most active area at the end of 1940 was in the deep basin area in Wabash, Edwards, White, and Hamilton Counties.

During 1940, the wells completed numbered 3829, of which 3064 were oil producers, 16 were gas producers and 749 were dry holes (Table 2). Of the total, 523 are classified as wildcat wells and of these 48 (or 9.2 per cent) were successful in obtaining production; 30 discovered new fields and 18 discovered extensions to known fields (Table 4 and Fig. 2).

The sequence of rock strata and relative positions of the producing zones are shown in figure 3.

The results of an investigation to ascertain the reason for the locations of as many as possible of the wildcat wells are set forth in the accompanying table.

Of the 523 wildcat wells, the 303 known to have been located by scientific methods were 15 per cent successful whereas the remaining 220 were only 1.3 per cent successful. The total footage of wildcat wells drilled in 1940 was 1,092,011 ft., of

Reason for Drilling	Total Number	Successful	Per Cent
Geology, geophysics and geo-chemistry.....	303	45	15.0
Not based on geologic or geo-physical information.....	170	2	1.2
Unknown.....	50	1	2.0
Total	523	48	9.2

which a total of 121,342 ft. was drilled in successful wildcat wells.

The number of producing wells in the new fields increased from 5042 at the beginning to 7965 at the end of 1940.

There were 361 drilling operations in the state at the end of the year. As of Dec. 31, 1940, of this number 248 were in the new fields. The area proved for production in the new fields increased from 54,210 acres at the beginning of the year to 78,040 acres at the end, an increase of 23,830 acres, of which 6480 acres are in the 30 fields discovered in 1940 and the remainder, 17,350 acres, in extensions to known fields.

EXPLANATION OF TABLE 1

The field is the unit in table 1. Each space may represent one of four possibilities; either it is not applicable to the particular field, or the proper entry is not determinable, or the proper entry may be determinable but is not determinable from data available to the author, or the proper entry is determinable. Spaces that are not applicable are left blank; in spaces where the proper entries are determinable from data available to the author, *y* is inserted; *y* implies a hope that in some future year a definite figure will be available; *x* indicates that data are not known.

The entry of a 0 is a positive declaration.

The quantity of gas includes gas sold or otherwise marketed. Gas blown into the air, burned as flares or otherwise wasted is not included.

Under the columns on "Depth," the average depth to the top of the productive zone and to the bottom of the productive well, when subtracted, does not necessarily give the approximate thickness of the productive zone.

In classifying wells as to producing methods, all wells that are not "flowing" are entered in the column headed "Artificial Lift."

FOOTNOTES TO COLUMN HEADINGS—TABLE 1

^a The old Southeastern fields are listed in geographic order from north to south; all others are listed alphabetically by counties.

^b Areas where both oil and gas are produced, unless gas is marketed outside the field, are included in the column headed "Oil."

^c Wells producing both oil and gas are classified as "Producing Oil." Gas wells are those producing gas, but include those producing wet gas, from which casinghead gasoline may be produced.

^d Letters indicate type of operation: PM, pressure maintenance from early life of field; RP, field repressuring in its later life.

^e Cam, Cambrian; Ord, Ordovician; Sil, Silurian; Dev, Devonian; Mis, Mississippian; MisL, Lower Mississippian; MisU, Upper Mississippian; Pen, Pennsylvanian.

^f S, sandstone; L, limestone; LS, Limestone, sandy.

^g "Por" indicates that the reservoir rock is of pore type; "Cav," cavernous type.

^h A, anticline; AM, accumulation due to both anticlinal and monoclinal structure; ML, monocline-lens; D, dome; T, terrace; N, nose.

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—Oil and Gas Production in Illinois

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells				
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940	Completed	Abandoned	Temporary Shut Down	Producing Oil
1	Warrenton-Borton, Edgar	1906	100	0	30,000	345	0	0	22	0	0	14	0
2	Westfield, Clark, Coles...	1904	9,000	75	x	x	0	1,627	3	26	14	311	0
3			850	75	x	x	0	186	1	0	y	y	0
4			9,000	0	x	x	0	1,448	2	0	y	y	0
5			220	0	x	x	0	13	0	0	y	y	0
6	Siggins, Cumberland, Clark	1906	3,580	105	x	x	0	995	0	31	0	812	0
7			3,135	55	x	x	0	854	0	y	0	y	0
8			435	15	x	x	0	90	0	y	0	y	0
9			855	105	x	x	0	192	0	y	0	y	0
10	York, Cumberland,	y	310	40	x	x	0	70	0	0	0	44	0
11	Casey, Clark,	1906	1,925	55	x	x	0	533	1	0	0	489	0
12			190	15	x	x	0	41	0	0	0	y	0
13			400	0	x	x	0	82	0	0	0	y	0
14			1,525	15	x	x	0	320	1	0	0	y	0
15	Martinsville, Clark, ...	1907	710	155	x	x	0	215	2	10	2	112	0
16			15	20	x	x	0	7	0	y	y	y	0
17			275	35	x	x	0	63	0	y	y	y	0
18			710	0	x	x	0	22	1	y	y	y	0
19			600	0	x	x	0	34	0	y	y	y	0
20			640	0	x	x	0	39	0	y	y	y	0
21			10	0	x	x	0	2	1	y	y	y	0
22	North Johnson, Clark, ...	1907	1,320	20	x	x	x	485	0	0	0	433	0
23			1,115	0	x	x	x	296	0	0	0	y	0
24			160	0	x	x	x	32	0	0	0	y	0
25			820	5	x	x	x	177	0	0	0	y	0
26			215	0	x	x	0	44	0	0	0	y	0
27	South Johnson, Clark, ...	1907	1,715	65	x	x	x	535	0	0	0	479	0
28			185	5	x	x	x	38	0	0	0	y	0
29			295	0	x	x	x	59	0	0	0	y	0
30			1,675	35	x	x	x	402	0	0	0	y	0
31			845	5	x	x	x	170	0	0	0	y	0
32	Bellair, Crawford, Jasper	1907	1,300	5	x	x	x	486	0	0	15	380	0
33			1,165	0	x	x	x	310	0	0	y	y	0
34			315	0	x	x	x	65	0	0	y	y	0
35			910	0	x	x	x	182	0	0	y	y	0
36	Clark County Division ¹ ...	1906	19,960	520	52,723,000	335,000	x	4,946	6	67	31	3,060	0
37	Main, ² Crawford,	1906	35,135	515	x	x	x	7,323	1	133	160	4,862	0
38			340	0	x	x	x	68	0	y	y	y	0
39			33,795	510	x	x	x	7,142	1	y	y	y	0
40			1,000	0	x	x	x	108	0	y	y	y	0
41	New Hebron, Crawford, ...	1909	1,350	210	x	x	x	297	0	28	0	146	0
42	Chapman, Crawford, ...	1914	1,045	515	x	x	x	193	0	7	0	61	0
43	Parker, Crawford,	1907	1,310	30	x	x	x	256	0	2	0	219	0
44	Allison-Weger, Crawford	y	1,075	20	x	x	x	147	0	0	0	65	0
45	Flat Rock, ³ Crawford, ...	y	1,375	545	x	x	x	289	0	7	0	137	0
46	Birds, Crawford,	y	4,370	115	x	x	x	684	0	11	5	449	0
47	Crawford County Division ⁶		45,665	1,945	145,908,000	1,226,000	x	9,189	1	188	165	5,939	0
48	Lawrence, Lawrence, Crawford	1906	24,150	1,550	x	x	x	4,405	4	58	12	3,258	0
49			5,015	35	x	x	x	1,233	1	y	y	y	0
50			2,240	0	x	x	x	475	0	y	y	y	0
51			345	1,095	x	x	x	243	0	y	y	y	0
52			15,960	220	x	x	x	3,017	0	y	y	y	0

^b Footnotes to column heads and explanation of symbols are given on page 3.¹ Total of lines 2, 6, 10, 11, 15, 22, 27, 32.² Includes Kibbie, Ohlberg, Robinson, and Hardinsville.³ Includes Swearingen gas.⁶ Total of lines 37, 41, 42, 43, 44, 45, 46.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940	Reservoir Pressure, Lb. per Sq. In. ⁴	Character of Oil	Producing Formation								Deepest Zone Tested to End of 1940					
				Repressuring Operations ⁵		Producing Formation											
				Initial	Avg. at End of 1940	Gravity, A.P.I. at 60° F. ⁵ Weighted Average	Sulphur, Per Cent	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.					
Number of Wells																	
Flowing	Artificial Lift																
1 6	0																
2 0	311	200±	x	x	x	34.0	x	Unnamed	Pen	S	Por	159	215	x	ML	Pen St. Peter	715
3 0	y	x	x	x	x	30.0	x	See below	Pen	S	Por	281	376	36	D		3,009
4 0	y	x	x	x	x	33.5	x	Shallow gas sand	Pen	L	Cav	334	446	x	D		
5 0	x	x	x	x	x	38.2	0.18	Westfield lime	MisL	L	Ord	2,265	2,568	x	D		
6 0	812	x	x	RP	x	33.0	x	"Trenton"	Pen	L					D	Devonian	2,010
7 0	y	x	x	x	x	34.0	x	See below	Pen	S	Por	367	465	x	D		
8 0	y	x	x	x	x	(33.6)	x	First Siggins sand	Pen	S	Por	478	562	x	D		
9 0	y	x	x	x	x	(25.7)	x	Second and third Siggins sand	Pen	S	Por	556	590	x	D		
10 0	44	x	x	x	x	(30.3)	x	Lower Siggins sand	Pen	S	Por	588	680	x	AM		
11 0	48	x	x	RP	x	29.2	x	York sand	Pen	S	Por	588	680	x	AM	MisL	960
12 0	x	x	x	x	x	(31.9)	x	See below	Pen	S	Por	263	358	x	AM		808
13 0	y	x	x	x	x	(30.1)	x	Upper gas sand	Pen	S	Por	309	426	x	AM		
14 0	y	x	x	x	x	(33.6)	x	Lower gas sand	Pen	S	Por	444	505	x	AM		
15 0	112	x	x	x	x	36.8	x	Casey sand	Pen	S	Por	444	505	x	D	St. Peter	3,411
16 0	y	x	x	x	x	y	x	See below	Pen	S	Por	255	411	x	D		
17 0	y	x	x	x	x	y	x	Shallow sand	Pen	S	Por	449	511	x	D		
18 0	y	x	x	x	x	y	x	Casey sand	Pen	L	Por	477	506	x	D		
19 0	y	x	x	x	x	(38.9)	x	Martinsville	MisL	L	Por	1,340	1,418	x	D		
20 0	y	x	x	x	x	(39.6)	x	Carper	MisL	L	Por	1,553	1,596	x	D		
21 0	y	x	x	x	x	(39.6)	x	"Niagaran"	Dev	L	Por	2,708	2,830	x	D		
22 0	433	x	x	x	x	31.0	x	"Trenton"	Ord	L	Por				AM	Mis	965
23 0	y	x	x	x	x	y	x	See below	Pen	S	Por	416	486	x	AM		
24 0	y	x	x	x	x	y	x	Claypool sand	Pen	S	Por	314	451	x	AM		
25 0	y	x	x	x	x	y	x	Shallow sands	Pen	S	Por	465	508	x	AM		
16 0	y	x	x	x	x	y	x	Casey sand	Pen	S	Por	534	554	x	AM		
27 0	475	x	x	x	x	32.2	x	Upper Partlow	Pen	S	Por	392	549	x	AM		
28 0	y	x	x	x	x	y	x	See below	Pen	S	Por	453	518	x	AM		
29 0	y	x	x	x	x	y	x	Claypool sand	Pen	S	Por	489	570	x	AM		
30 0	y	x	x	x	x	y	x	Casey sand	Pen	S	Por	598	618	x	AM		
31 0	y	x	x	x	x	28.5	x	Upper Partlow	Pen	S	Por	561	726	x	AM		
32 0	380	x	x	RP	x	33.7	x	See below	Pen	S	Por	817	907	x	AM	MisL	1,471
33 0	y	x	x	x	x	(32.4)	x	"500 Ft." sand	Pen	S	Por	886	920	x	AM		
34 0	y	x	x	x	x	y	x	"800 Ft." sand	Pen	S	Por				AM		
35 0	y	x	x	x	x	(37.0)	x	"900 Ft." sand	MisU	S	Por				AM		
36 0	3,060	x	x	x	x	33.0	x	"500 Ft." sand	Pen	S	Por	598	618	x	AM		
37 0	4,862	425±	y	RP	x	33.0	x	"800 Ft." sand	Pen	S	Por	960	25±		AM		
38 0	y	x	x	x	x	y	x	"900 Ft." sand	Pen	S	Por	1,337	1,416	x	AM	"Trenton"	4,620
39 0	y	x	x	x	x	32.8	x	See below	Pen	S, L	Por				ML	"Trenton"	4,620
40 0	y	x	x	x	x	y	x	Robinson sand	Pen	S, L	Por				ML	Mis	1,479
								Oblong	Mis	S, L	Por				A		
41 0	146	x	x	RP	x	30.1	x	Robinson sand	Pen	S	Por	940	975	x	ML	Mis	2,056
42 0	61	x	x	x	x	y	x	Robinson sand	Pen	S	Por	995	1,015	x	ML	Mis	2,279
43 0	219	x	x	x	x	29.5	x	Robinson sand	Pen	S	Por	1,000	1,025	x	ML	Pen	1,127
44 0	65	x	x	x	x	22.5	x	Robinson sand	Pen	S	Por	912	930	x	ML	Pen	1,041
45 0	137	x	x	RP	x	31.8	x	Robinson (Flat Rock) sand	Pen	S	Por	935	945	x	ML	Devonian	3,110
46 0	44	x	x	RP	x	31.8	x	Robinson sand	Pen	S	Por	930	950	x	ML	MisL	1,731
47 0	5,938	425±	x	x	x	32.3	x	Robinson sand	Pen	S	Por				ML	"Trenton"	4,620
48 0	3,258	650±	x	RP	x	32.9	x	See below	Mis						A	St. Peter	5,190
49 0	y	x	x	x	x	y	x	Bridgeport sand	Pen	S	Por	800	1,000	40	A		
50 0	y	x	x	x	x	y	x	Buchanan	Pen	S	Por	1,250	1,265	15	A		
51 0	y	x	x	x	x	y	x	"Gas" sand	MisU	S	Por	1,330	1,345	15	A		
52 0	y	x	x	x	x	y	x	Kirkwood	MisU	S	Por	1,400	1,430	30	A		

⁴ Pressures in the southeastern Illinois oil fields are estimated bottom-hole pressures reported in previous Survey publications.

⁵ All gravities given prior to 1936 (except those in parentheses) were from data for the year 1925 furnished by the Illinois Pipe Line Co. Gravities in parentheses are for particular samples, see Illinois State Geol. Survey Bull. 54, Table 3. The values have been converted from Baumé to A.P.I. gravities.

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.	Number of Oil and/or Gas Wells			
			Oil	Gas ^b	To End of 1940	During 1940					
								Completed to End of 1940	During 1940	Completed	Abandoned
53			4,020	200	x	x	688	3	y	y	0
54			6,950	0	x	x	958	0	y	y	0
55	St. Francisville, Lawrence	y	420	0	x	x	55	0	0	0	31
56	Lawrence County Division ⁷		24,570	1,550	225,964,000	1,528,000	4,460	4	58	12	3,289
57	Allendale, Wabash	1912	1,680	0	4,849,000	106,000	427	6	0	0	207
58	Total Southeastern Fields ⁸		91,855	3,970	429,474,000	3,195,345	19,044	17	313	222	12,495
59	Ayers gas, Bond	1922	0	325	0	0	194.4	13.8	19	0	0
60	Greenville gas, Bond	1916 ⁹	0	160	0	0	990.0	0	4	0	0
61	Bartelso, Clinton	1936	580	0	739,000	378,000	0	0	64	24	0
62			320	0	528,000	167,000	0	0	40	1	0
63			230	0	211,000	211,000	0	0	24	23	0
64	Carlyle, Clinton	1911	915	0	3,402,000	29,000	0	0	165	0	40
65	Frogtown, Clinton	1918 ¹⁰	300	0	x	0	0	0	12	0	0
66	Ava-Campbell Hill, Jackson	1917 ¹¹	70	370	x	0	x	0	35	0	0
67	Colmar-Plymouth, McDonough, Hancock	1914	2,450	0	2,673,000	121,000	x	y	482	5	0
68	Decatur, Marion	1937 ¹²	10	0	1,000	0	0	0	2	0	0
69	CarlINVILLE, Macoupin	1909 ¹³	30	50	x	0	x	0	8	0	0
70	Gillespie-Benld gas, Macoupin	1923 ¹⁴	0	80	0	0	135.8	0	4	0	0
71	Gillespie-Wyen, Macoupin	1915	40	0	x	0	0	0	22	0	0
72	Spanish Needle Creek gas, Macoupin	1915 ¹⁵	0	80	0	0	14.4	0	7	0	0
73	Staunton gas, Macoupin	1916 ¹⁶	0	400	0	0	1,050.0	0	18	0	0
74	Collinsville, Madison	1909 ¹⁷	40	0	850	0	0	0	6	0	0
75	Brown-Langewisch Kues-ter-Junction City, Marion	1910	175	0	x	x	0	0	10	0	0
76			60	0	x	x	0	0	6	0	0
77			115	0	x	x	0	0	4	0	0
78	Sandoval, Marion	1909	770	0	4,181,000	721,000	0	0	149	4	0
79			770	0	2,680,000	14,000	0	0	123	0	0
80			380	0	1,501,000	707,000	x	y	26	4	0
81	Wamac, Marion, Clinton, Washington	1921	250	0	422,000	19,000	0	0	104	0	7
82	Litchfield, Montgomery	1879 ¹⁸	100	0	22,000	0	0	0	18	0	1
83	Waterloo, Monroe	1920 ¹⁹	230	0	197,000	21,000	0	0	38	8	3
84	Jacksonville gas, Morgan	1910 ²⁰	30	1,290	2,100	0	x	0	53	0	0
85	Pike County gas, Pike	1905 ²¹	0	8,960	0	0	x	0	68	0	0
86	Sparta, Randolph	1888 ²²	65	100	x	0	x	0	20	1	1

⁷ Total of lines 48 and 55.⁸ Total of lines 1, 36, 47, 56, 57.⁹ Abandoned 1923.¹⁰ Abandoned 1933.¹¹ Abandoned 1934.¹² Abandoned 1940.¹³ Abandoned 1925.¹⁴ Abandoned 1935.¹⁵ Abandoned 1934.¹⁶ Abandoned 1919.¹⁷ Abandoned 1921.¹⁸ Abandoned 1904.¹⁹ Abandoned 1930, revived 1939.²⁰ Abandoned 1937.²¹ Abandoned 1930.²² Abandoned 1900.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. ⁴	Character of Oil	Producing Formation								Deepest Zone Tested to End of 1940							
	Number of Wells	Flowing	Artificial Lift		Initial	Avg. at End of 1940	Repressuring Operation ^d	Gravity, API at 60° F. ⁵ Weighted Average	Sulphur, Per Cent	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.	Top Prod. Zone	Bottoms Prod. Wells	Net Thickness, Avg. Ft.	Structure ^h	Name	Depth of Hole, Ft.
53 0	y	650	x	y	x	37.3	x	Tracey	MisU	S	Por	1,560	1,580	20	A					
54 0	y	x	x	y	x	37.3	x	McCosky	MisL	L	Por	1,700	1,710	10	A					
55 0	31	600	x	x	x			Bethel	MisU	S	Por	1,843	1,865	22	ML					
56 0	3,289	x	x																	
57 0	207	x	x	RP	35.1	x		Biehl sand	Pen	S	Por	1,425	1,460	20	AM					
58 0	12,495																			
59		335	y					Lindley (2d)	MisU	S	Por	940	945	5	A	Devonian	2,181			
60		x						Lindley (1st, 2d)	MisU	S	Por	927	993	x	A	Devonian	2,290			
61 0	64	x																		
62 0	40	x	x		36.2	0.20		Carlyle	MisU	S	Por	984	1,008	24	D					
63 0	24	x	x	RP	41.5	0.27		Devonian	Dev	L	Por	2,429	2,447	9	D					
64 0	63	x	x		35.2	0.26		Carlyle	MisU	S	Por	1,035	1,055	20	A	St. Peter	4,120			
65 0	0	x	x		31.9	x		Carlyle	MisU	S	Por	950	957	7	D	Cypress	962			
66 0	0	x	x		x	x		Cypress	MisU	S	Por	780	798	18	A	Devonian	2,530			
67 0	213	x	x	RP	37.6	0.38		Hoing sand	Dev	S	Por	447	468	21	A	"Trenton"	805			
68 0	0	x			39.5	x		"Niagaran"	Dev	L	Por	2,020	2,076	30	N	St. Peter	2,991			
69 0	0	135			27.7	x		Unnamed	Pen	S	Por	380	398	x	A	Pen	410			
70 0	0	155						Unnamed	Pen	S	Por	542	555	x	A	Pen	575			
71 0	0	0	x	x	30.0	x		Unnamed	Pen	S	Por	650	670	x	T	"Trenton"	2,560			
72 0	0	0	x					Unnamed	Pen	S	Por	305	405	x	D	Pen	495			
73 0	0	0	145					Unnamed	Pen	S	Por	461	491	x	A	"Trenton"	2,371			
74 0	0	0	x					Devonian-Silurian	Dev-Sil	L	Por	1,305	1,400	20	ML	Silurian	1,500			
75 0	0	9																		
76 0	5	x	x		32.0	x		Dykstra, Wilson	Pen	S	Por	610	630	20	D	MisL	2,001			
77 0	4	x	x		32.0	x		Cypress	MisU	S	Por	1,658	1,673	15	D	Devonian	3,344			
78 0	49																			
79 0	23	x	x		34.5	x		Benoist	MisU	S	Por	1,540	1,560	20+	D	Devonian	3,055			
80 0	26	x	x		38.0	0.38		Devonian	Dev	L	Por	2,924	2,939	9	D					
81 0	36	x	x		30.2	x		Petro	Pen	S	Por	720	760	20	D	MisL	1,760			
82 0	0	0	x		23.0	0.42		Unnamed	Pen	S	Por	664	674	x	D	Pen	681			
83 0	12	x	x	x	3.02	0.79		"Trenton"	Ord	L	Por	410	460	50	A	"Trenton"	845			
84 0	0	0	x		x	x		Gas sand	Pen, S, SL	Pen, S, SL	Por	330	335	5	ML	"Trenton"	1,390			
85 0	0	0	x					"Niagaran"	Sil	L	Por	265	275	10	A	St. Peter	893			
86 0	0	0	x		x	x		Cypress	MisU	S	Por	850	857	7	D	MisU	985			

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells						
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	Completed to End of 1940	During 1940		Completed	Abandoned	Temporarily Shut Down	Producing Oil	Producing Gas ^c
									During	1940					
87	Dupo, St. Clair	1928	670	0	1,275,000	182,000	0	263	15	0	0	64	0	0	
88	Total for fields prior to Jan. 1, 1937 ²³		98,600	15,830	442,388,950	4,666,345	2,374,6	13,8	20,615	74	327	347	13,045	7	0
89	Sorento, Bond	1938	30	0	4,000	3,000	0	0	3	2	2	0	1	0	0
90	Woburn, Bond	1940	180	0	93,000	93,000	0	0	24	24	0	0	24	0	0
91	Flora, Clay	1938	70	0	308,000	94,000	0	0	19	2	1	0	18	0	0
92			v	0	x	x	0	0	2	2	0	0	2	0	0
93			0	0	x	x	0	0	1	0	0	0	1	0	0
94			y	0	x	x	0	0	16	0	1	0	15	0	0
95	Iola, Clay	1939 ²⁴	20	0	8,000	3,000	0	0	2	2	0	0	0	0	0
96	Clay City, Clay, Wayne . . .	1937	8,450	0	15,778,000	3,882,000	0	0	420	41	4	0	412	0	0
97			y	0	x	x	0	0	3	3	0	0	3	0	0
98			y	0	x	x	0	0	1	1	0	0	1	0	0
99			y	0	x	x	0	0	1	1	0	0	1	0	0
100			y	0	x	x	0	0	415	36	4	0	407	0	0
101			y	0	x	x	0	0	41	40	0	0	41	0	0
102	Hoffman, Clinton	1939	290	0	116,000	115,000	0	0	8	8	0	0	8	0	0
103			y	0	x	x	0	0	33	32	0	0	33	0	0
104			y	0	x	x	0	0	1	1	0	0	1	0	0
105	West Centralia, Clinton . . .	1940	10	0	0	0	0	0	898	345	9	3	874	0	0
106	Centralia, Clinton, Marion . . .	1937	2,850	0	16,520,000	10,597,000	0	0	22	1	0	0	22	0	0
107			y	0	x	x	0	0	557	26	9	1	535	0	0
108			y	0	x	x	0	0	317	316	0	1	316	0	0
109			2,200	0	9,100,000 ²⁵	9,100,000 ²⁵	0	0	2	2	0	1	1	0	0
110			20	0	x	x	0	0	2	1	0	0	1	0	0
111	Mattoon, Coles	1939 ²⁵	20	0	9,000	9,000	0	0	2	1	0	0	1	0	0
112			10	0	x	x	0	0	1	0	0	0	0	0	0
113			10	0	9,000	9,000	0	0	1	1	0	0	1	0	0
114	Albion, Edwards	1940	630	0	955,000	955,000	0	0	59	59	0	0	59	0	0
115			y	0	x	x	0	0	3	3	0	0	3	0	0
116			y	0	x	x	0	0	10	10	0	0	10	0	0
117			y	0	x	x	0	0	46	46	0	0	46	0	0
118	Cowling, Edwards	1939	100	0	76,000	51,000	0	0	13	2	1	0	12	0	0
119	Grayville, Edwards, White . . .	1939	80	0	95,000	66,000	0	0	8	0	3	0	5	0	0
120	Mason, Effingham	1940	10	0	9,000	9,000	0	0	1	1	0	0	1	0	0
121	Louden, Fayette, Effingham . . .	1937	19,220	0	46,801,000	26,564,000	y	y	1,753	416	9	6	1,736	0	0
122			y	0	x	x	y	y	855	223	9	4	840	0	0
123			y	0	x	x	y	y	312	28	0	1	311	0	0
124			y	0	x	x	y	y	421	0	0	0	421	0	0
125									85	85	0	1	84	0	0
126									39	39	0	0	39	0	0
127									13	13	0	0	13	0	0
128									28	28	0	0	28	0	0
129	St. James, Fayette	1938	1,830	0	2,213,000	1,719,000	0	0	177	101	1	0	171	0	0
130			1,830	0	2,213,000	1,719,000	0	0	176	100	1	0	170	0	0
131									1	1	0	0	1	0	0
132	Thompsonville, Franklin	1940	210	0	71,000	71,000	0	0	16	16	0	0	16	0	0
133	Whittington, Franklin	1939	10	0	11,000	7,000	0	0	1	0	0	0	1	0	0
134	Junction, Gallatin	1939	150	0	124,000	100,000	0	0	14	8	0	0	14	0	0
135	Inman, Gallatin	1940	40	0	4,000	4,000	0	0	4	4	1	0	3	0	0
136			10	0	x	x	0	0	1	1	0	0	1	0	0
137			10	0	x	x	0	0	1	1	0	0	1	0	0
138			10	0	x	x	0	0	1	1	1	0	0	0	0
139			10	0	x	x	0	0	1	1	0	0	1	0	0
140	Omaha, Gallatin	1940	10	0	6,000	6,000	0	0	1	1	0	0	1	0	0
141	Belle Prairie, Hamilton	1940	10	0	3,000	3,000	0	0	1	1	0	0	1	0	0

²³ Total of lines 58 to 87 inclusive.²⁴ Abandoned 1940.²⁵ Abandoned 1939, revived 1940.²⁶ Estimated.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940	Reservoir Pressure, Lb. per Sq. In. ⁴	Character of Oil	Producing Formation										Deepest Zone Tested to End of 1940				
				Initial	Avg. at End of 1940	Repressuring Operation ^d	Gravity, A.P.I. at 60° F. ³ Weighted Average	Sulphur, Per Cent	Name	Age ^e	Character ^f	Porosity	Depth, Avg. Ft.	Top Prod. Zone	Bottoms Prod. Wells	Net Thickness, Avg. Ft.	Structure ^h	Name	Depth of Hole, Ft.
87	0	64	x	x	32.7	0.70	“Trenton”		Ord	L	Por	601	561	50	A	“Trenton”	819	
88	0	13,045																
89	0	1	x	x	x	x	Devonian		Dev	L	Por	1,830	1,893	5	D	Devonian	1,893	
90	0	24	x	x	36.4	0.20	Bethel		MisU	S	Por	1,008	1,024	11	A	Devonian	2,454	
91	0	18															MisL	3,100
92	0	2	x	x	x	x	Cypress		MisU	S	Por	2,594	2,614	5	D			
93	0	1	x	x	37.4	x	Bethel		MisU	S	Por	2,788	2,800	12	A			
94	0	15	x	x	37.2	0.24	McClosky		MisL	L	Por	2,965	2,978	6	D			
95	0	0	x	x	35.4	0.25	Aux Vases		MisU	S	Por	2,335	2,351	4	A	MisU	2,383	
96	1	411					PM										MisL	3,197
97	0	3	x	x	x	x	Cypress		MisU	S	Por	2,603	2,608	14	D			
98	0	1	x	x	x	x	Bethel		MisU	S	Por	2,866	2,870	5	A			
99	0	1	x	x	x	x	{ Aux Vases ²⁷		MisU	S	Por	2,910	3,000	8	D			
100																		
101	1	406	x	x	38.5	x	Rosiclar		MisL	S	Por	2,970	3,000	6	A			
102	0	41					McClosky		MisL	L	Por	2,995	3,058	9	D	Devonian	2,914	
103	0	8	x	x	x	x	Cypress		MisU	S	Por	1,185	1,201	9				
104	0	33	x	x	32.2	0.21	Bethel		MisU	S	Por	1,319	1,324	7	A	MisU	1,415	
105	0	1	x	x	x	x	Bethel		MisU	S	Por	1,408	1,415	7	D	“Trenton”	4,068	
106	0	874					PM											
107	0	22	x	150	36.4	x	Cypress		MisU	S	Por	1,200	1,225	19	A	St. Peter	4,908	
108	0	535	250+	50	37.4	x	Bethel		MisU	S	Por	1,355	1,378	23	D			
109	0	316	x	400	37.4	0.38	Devonian,		Dev	L	Por	2,860	2,919	8	A			
110	0	1	x	x	43.2	0.28	“Trenton”		Ord	L	Por	4,020	4,120	39	D			
111	0	1																
112	0	0	x	x	44.1	0.16	Cypress		MisU	S	Por	1,835	1,919	25	A			
113	0	1	x	x	36.6	0.29	McClosky		MisL	L	Por	2,000	2,027	6	D	Devonian	5,185	
114	0	59																
115	0	3	x	x	x	x	Bridgeport		Pen	S	Por	1,571	1,622	10	A			
116	0	10	x	x	34.0	x	Waltersburg		MisU	S	Por	2,365	2,373	10	D?	MisL	3,175	
117	0	46	x	x	40.0	0.18	McClosky		MisL	L	Por	3,108	3,157	11	A	MisL	3,269	
118	0	12	x	x	36.6	0.23	Cypress		MisU	S	Por	2,620	2,640	12	D?			
119	0	5	x	x	35.8	0.31	McClosky		MisL	L	Por	3,093	3,188	6	A			
120	0	1	x	x	x	x	McClosky		MisL	L	Por	2,491	2,503	12	D	MisL	2,503	
121	435	1,301					PM										Devonian	3,170
122	169	671	500+	260	36.6	0.25	Cypress		MisU	S	Por	1,493	1,549	25	D			
123	125	186	x	340	37.8	0.24	Paint Creek Stray		MisU	S	Por	1,546	1,571	17	A			
124	137	284	575+	350	38.5	x	Bethel		MisU	S	Por	1,540	1,561	18	D			
125	4	80					Cyp., Stray ²⁷											
126	0	39					Cyp., Beth. ²⁷											
127	0	13					Stray, Beth. ²⁷											
128	0	28					Cyp., Stray, Beth. ²⁷											
129	0	171																
130	0	170	x	x	34.4	0.31	Cypress		MisU	S	Por	1,581	1,600	16	A	Devonian	3,375	
131	0	1					Cypress, Stray ²⁷											
132	0	16	x	x	37.8	0.16	McClosky		MisL	L	Por	3,121	3,136	12	A	MisL	3,136	
133	0	1	x	x	37.6	0.24	McClosky, St. Louis ²⁷		MisL	L	Por	2,869	2,878	9	D	MisL	3,068	
134	0	14	x	x	37.2	0.22	Waltersburg		MisU	S	Por	1,763	1,804	15	D	MisL	2,711	
135	0	3													D	MisL	3,007	
136	0	1	x	x	x	x	Palestine		MisU	S	Por	1,832	1,854	10	D?			
137	0	1	x	x	x	x	Tar Springs		MisU	S	Por	2,082	2,090	4	D?	MisL		
138	0	0	x	x	x	x	Rosiclar		MisL	S	Por	2,803	3,007	x	A			
139	0	1	x	x	x	x	McClosky		MisL	L	Por	2,730	2,742	12	D			
140	0	1	x	x	25.9	0.23	Palestine		MisU	S	Por	1,672	1,722	32	D	MisL	2,840	
141	0	1	x	x	37.0	0.12	McClosky		MisL	L	Por	3,457	3,578	3	D?	MisL	3,578	

²⁷ Wells producing from more than one sand.

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells				
			Oil	Gas ^b	To End of 1940		During 1940		Completed to End of 1940	Completed	During 1940		
					To End of 1940	During 1940	To End of 1940	During 1940			Abandoned	Temporarily Shut Down	
142	Dale, Hamilton.....	1940	550	0	329,000	329,000	0	0	25	25	0	0	25 0
143			y	0	x	x	0	0	23	23	0	0	23 0
144			y	0	x	x	0	0	2	2	0	0	2 0
145	Hoodville, Hamilton.....	1940	560	0	344,000	344,000	0	0	52	52	0	0	52 0
146			y	0	x	x	0	0	50	50	0	0	50 0
147			y	0	x	x	0	0	2	2	0	0	2 0
148	Boos, Jasper.....	1940	80	0	143,000	143,000	0	0	4	4	0	0	4 0
149	Hidalgo, Jasper.....	1940	20	0	5,000	5,000	0	0	2	2	0	0	2 0
150	North Boos, Jasper.....	1940	140	0	190,000	190,000	0	0	10	10	0	0	10 0
151	West Liberty, Jasper.....	1940	710	0	271,000	271,000	0	0	31	31	0	0	31 0
152	Cravat, Jefferson.....	1939	100	0	77,000	63,000	0	0	11	5	0	0	11 0
153	Dix, Jefferson.....	1938	1,350	0	1,582,000	717,000	0	0	65	8	0	0	65 0
154	Elk Prairie, Jefferson.....	1938 ²⁸	10	0	700	0	0	0	1	0	1	0	0 0
155	Ina, Jefferson.....	1938	10	0	14,000	2,000	0	0	1	0	0	0	1 0
156	Marcoe, Jefferson.....	1938	10	0	12,000	3,000	0	0	2	0	0	0	1 0
157	Roaches, Jefferson.....	1938	120	0	245,000	175,000	0	0	10	1	0	0	10 0
158	Woodlawn, Jefferson.....	1940	10	0	x	0	0	1	1	0	0	0	1 0
159	Russellville Gas, Lawrence.....	1937	0	1,600	0	0	0,1,955.5	890.4	41	9	0	0	0 41
160			0	20	0	0	y	y	4	0	0	0	0 4
161			0	1,580	0	0	y	y	37	9	0	0	0 37
162	Patoka, Marion.....	1937	740	0	2,078,000	417,000	0	0	117	2	2	0	104 0
163			730	0	x	x	0	0	115	1	2	0	102 0
164			10	0	x	x	0	0	2	1	0	0	2 0
165	Salem, Marion.....	1938	9,060	0	122,756,000	70,136,000	y	y	2,410	829	17	5	2,386 0
166			y	0	x	x	y	y	457	34	0	0	453 0
167			y	0	x	x	y	y	149	8	0	0	149 0
168			y	0	x	x	y	y	550	158	17	1	534 0
169			y	0	x	x	y	y	8	2	0	0	8 0
170			5,000	0	27,600,000 ²⁸	27,600,000 ²⁸	y	y	540	533	0	4	536 0
171									471	33	0	0	471 0
172									231	57	0	0	231 0
173									2	2	0	0	2 0
174									1	1	0	0	1 0
175									1	1	0	0	1 0
176	Tonti, Marion.....	1939	350	0	3,469,000	2,560,000	0	0	49	14	1	1	48 0
177			y	0	x	x	0	0	4	0	0	0	4 0
178			y	0	x	x	0	0	10	6	0	0	10 0
179			y	0	x	x	0	0	29	2	1	1	28 0
180			21	0	x	x	0	0	6	6	0	0	6 0
181	Fairman, Marion, Clinton.....	1939	450	0	231,000	209,000	0	0	16	5	1	0	15 0
182	Raymond, Montgomery.....	1940	10	0	500	500	0	0	2	2	1	0	1 0
183	Waggoner, Montgomery.....	1940	40	0	1,000	1,000	0	0	4	4	0	0	4 0
184	Dundas, Richland.....	1939	2,160	0	2,298,000	2,062,000	0	0	88	70	0	0	88 0
185			y	0	x	x	0	0	1	1	0	0	1 0
186			y	0	x	x	0	0	87	69	0	0	87 0
187	Noble, Richland.....	1937	3,740	0	9,571,000	2,718,000	0	0	246	26	13	0	225 0
188			y	0	x	x	0	0	72	24	0	0	72 0
189			y	0	x	x	0	0	174	2	13	0	153 0
190	Olney, Richland.....	1937	520	0	962,000	209,000	0	0	37	2	2	0	35 0
191	Schnell, Richland.....	1938	40	0	150,000	22,000	0	0	4	0	0	0	4 0
192	Stewardson, Shelby.....	1939	30	0	11,000	7,000	0	0	3	2	0	0	3 0
193	Griffin, Wabash.....	1939	900	0	1,387,000	1,218,000	0	0	102	55	1	0	101 0
194			y	0	x	x	0	0	13	9	0	0	13 0
195			y	0	x	x	0	0	1	1	0	0	1 0
196			y	0	x	x	0	0	1	1	0	0	1 0
197			y	0	x	x	0	0	71	31	0	0	71 0

²⁸ Abandoned 1940.

TABLE 1.—(Continued)

Line Number	Flowing Artificial Lift	Oil-pro- duction Methods, End of 1940	Reservoir Pressure, Lb. per Sq. In. ⁴	Character of Oil	Producing Formation							Deepest Zone Tested to End of 1940						
					Repressuring Operation ^d		Gravity, A.P.I. at 60° F., ⁵ Weighted Average	Sulphur, Per Cent	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.					
					Initial	Avg. at End of 1940												
142	0	25																
143	0	23	x	x	37.6	0.25	Cypress			MisU	S	Por	2,678	2,708	18	D	MisL	3,257
144	0	2	x	x	x	x	McClosky			MisL	L	Por	3,143	3,185	16	D?	MisL	3,224
145	3	49																
146	3	47	x	x	38.0	x	Bethel			MisU	S	Por	2,952	2,975	20			
147	0	2	x	x	x	x	McClosky			MisL	L	Por	3,146	3,224	14			
148	0	4	x	x	39.6	0.26	McClosky			MisL	S	Por	2,818	2,865	8	A	MisL	2,865
149	0	2	x	x	x	x	McClosky			MisL	L	Por	2,560	2,607	8	N	Devonian	4,139
150	4	6	x	x	38.6	0.20	McClosky			MisL	L	Por	2,791	2,834	12	A	MisL	2,834
151	0	31	x	x	x	x	McClosky			MisL	L	Por	2,788	2,824	10	A	Devonian	4,584
152	0	11	x	x	35.4	0.23	Bethel			MisU	S	Por	2,066	2,076	11	D	MisL	2,356
153	0	65	495+	350	PM	38.0	0.18	Bethel		MisU	S	Por	1,948	1,959	14	A	Devonian	3,650
154	0	0	x	x	x	x	McClosky			MisL	L	Por	2,718	2,751	7	D	MisL	2,958
155	0	1	x	x	36.4	0.20	St. Louis			MisL	L	Por	3,002	3,007	5	D	MisL	3,064
156	0	1	x	x	23.2	0.54	McClosky			MisL	L	Por	2,746	2,765	11	D	MisL	3,066
157	0	10	x	x	37.0	0.22	McClosky, Rosi- clare ²⁷			MisL	L,S	Por	2,187	2,257	22	D	MisL	2,285
158	0	1	x	x			Bethel			MisU	S	Por	1,974	1,990	16	D		
159			380+	x											A	Devonian	3,133	
160			x	x			Pennsylvanian			Pen	S	Por	619	831	12			
161			380+	x			Buchanan			Pen	S	Por	1,708	1,119	10	A	Devonian	2,956
162	0	104																
163	0	102	x	x	39.5	x	Bethel			MisU	S	Por	1,424	1,440	16	A	Devonian	2,956
164	0	2	x	x	40.9	0.31	Rosiclare			MisL	S	Por	1,562	1,612	33			
165	74	2,312		PM											A	"Trenton"	4,618	
166	0	453	272+	x	38.5	0.20	Bethel			MisU	S	Por	1,797	1,835	35			
167	1	148	335+	x	38.6	0.21	Aux Vases			MisU	S	Por	1,813	1,865	28			
168	2	532	700	56	39.0	x	McClosky			MisL	L	Por	1,978	2,048	17			
169	0	8	250+	x	39.0	x	Salem			MisL	L	Por	2,156	2,222	17			
170	43	493	1,276	381	42.1	0.28	Devonian			Dev	L	Por	3,350	3,444	30			
171	18	453					Beth., Aux Vases ²⁷											
172	10	221					McClosky,											
173	0	2					Salem ²⁷											
174	0	1					Beth., McClosky ²⁷											
175	0	1					Aux Vases,											
							McClosky ²⁷											
							McClosky,											
							Devonian ²⁷											
176	1	47													D	Devonian	3,547	
177	0	4	x	x	x	x	Bethel			MisU	S	Por	1,928	1,942	14			
178	0	10	x	x	37.0	x	Aux Vases			MisU	S	Por	2,003	2,038	26			
179	0	28	x	x	39.4	0.21	McClosky			MisL	L	Por	2,134	2,165	12			
180	1	5	x	x	x	x	Devonian			Dev		Por	3,490	3,505	15			
181	0	15	x	x	38.2	x	Bethel			MisU	S	Por	1,462	1,479	7	D	"Trenton"	4,100
182	0	1	x	x	33.5	x	Pennsylvanian			Pen	S	Por	580	598	18	D	Pen	598
183	0	4	x	x	x	x	Pennsylvanian			Pen	S	Por	611	625	14	D	Devonian	1,784
184	57	31													A	MisL	2,980	
185	0	1	x	x	x	x	Cypress			MisU	S	Por	2,570	2,590	23			
186	57	30	1,100+	x	38.4	0.17	McClosky			MisL	L	Por	2,869	2,920	13	A	MisL	3,201
187	0	225																
188	0	72	x	x	34.6	0.27	Cypress			MisU	S	Por	2,544	2,639	17			
189	0	153	x	x	39.0	x	McClosky			MisL	L	Por	2,957	3,003	10			
190	0	35	x	x	37.2	0.19	McClosky			MisL	L	Por	3,052	3,073	9	A	MisL	3,222
191	0	4	x	x	37.0	0.19	McClosky			MisL	L	Por	3,012	3,068	6	D	MisL	3,120
192	0	3	x	x	37.8	0.18	Aux Vases			MisU	S	Por	1,942	1,969	5	D	MisU	1,969
193	0	101													A	MisL	3,058	
194	0	13	x	x	38.0	x	Biehl			Pen	S	Por	1,719	1,728	11			
195	0	1	x	x	x	x	Clore			MisU	S	Por	1,811	1,823	9			
196	0	1	x	x	x	x	Tar Springs			MisU	S	Por	2,060	2,135	y			
197	0	71	x	x	38.0	x	Cypress			MisU	S	Por	2,444	2,480	15			

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and or Gas Wells					
			Oil	Gas ^b	To End of 1940		During 1940		To End of 1940	Completed to End of 1940	During 1940			
					To End of 1940	During 1940	To End of 1940	During 1940			Completed	Abandoned	Temporarily Shut Down	Producing Oil	Producing Gas^{c}
198			^y	0	x	x	0	0	2	2	0	0	2	0
199			^y	0	x	x	0	0	13	11	0	0	13	0
200	East Keensburg, Wabash	1939	20	0	x	x	0	0	2	2	0	0	2	0
201	Keensburg, Wabash . . .	1939	1,120	0	2,402,000	1,619,000	0	0	160	40	3	0	157	0
202			^y	0	x	x	0	0	2	2	0	0	2	0
203			^y	0	x	x	0	0	1	1	0	0	1	0
204			^y	0	x	x	0	0	4	4	0	0	4	0
205			^y	0	x	x	0	0	152	0	3	0	149	0
206									1	1	0	0	1	0
207	Maud, Wabash	1940	130	0	43,000	43,000	0	0	9	9	0	0	9	0
208			^y	0	x	x	0	0	1	1	0	0	1	0
209			^y	0	x	x	0	0	8	8	0	0	8	0
210	Mt. Carmel, Wabash . . .	1940	730	0	25,000	25,000	0	0	6	6	0	0	6	0
211			^y	0	x	x	0	0	5	5	0	0	5	0
212			^y	0	x	x	0	0	1	1	0	0	1	0
213	Mt. Carmel (West), Wabash	1939	20	0	x	x	0	0	2	0	1	0	1	0
214	Lancaster, Wabash, Lawrence	1940	320	0	341,000	341,000	0	0	28	28	1	0	27	0
215	Cordes, Washington . . .	1939	1,430	0	1,184,000	716,000	0	0	128	33	1	1	127	0
216	Dubois, Washington . . .	1939	60	0	21,000	19,000	0	0	4	3	0	1	3	0
217	Irvington, Washington . . .	1940	440	0	510,000	510,000	0	0	39	39	0	0	39	0
218			^y	0	x	x	0	0	33	33	0	0	33	0
219			^y	0	x	x	0	0	6	6	0	0	6	0
220	McKinley, Washington . . .	1940	10	0	4,000	4,000	0	0	1	1	0	0	1	0
221	Barnhill, Wayne	1939	870	0	1,230,000	637,000	0	0	63	22	1	0	62	0
222			^y	0	x	x	0	0	2	2	0	0	2	0
223			^y	0	x	x	0	0	60	19	1	0	59	0
224			^y	0	x	x	0	0	1	1	0	0	1	0
225	Boyleston, Wayne	1938	1,460	0	1,527,000	1,308,000	0	0	83	58	0	0	83	0
226			^y	0	x	x	0	0	1	1	0	0	1	0
227			^y	0	x	x	0	0	81	56	0	0	81	0
228									1	1	0	0	1	0
229	Cisne, Wayne	1937	960	0	2,240,000	478,000	0	0	47	0	0	0	47	0
230			^y	0	x	x	0	0	2	0	0	0	2	0
231			^y	0	x	x	0	0	1	0	0	0	1	0
232			^y	0	x	x	0	0	44	0	0	0	44	0
233	Enterprise, Wayne	1939	4,370	0	4,144,000	2,876,000	0	0	152	102	1	0	151	0
234			^y	0	x	x	0	0	1	0	0	0	1	0
235			^y	0	x	x	0	0	2	2	0	0	2	0
236			^y	0	x	x	0	0	149	100	1	0	148	0
237	Goldengate, Wayne . . .	1939	30	0	x	x	0	0	3	0	2	0	1	0
238	Leech Twp., Wayne . . .	1938	240	0	232,000	127,000	0	0	14	5	0	0	14	0
239	Mt. Erie, Wayne	1938	10	0	10,000	3,000	0	0	1	0	0	0	1	0
240	North Aden, Wayne . . .	1938	1,100	0	1,935,000	905,000	0	0	65	5	2	0	61	0
241	Rinard, Wayne	1937 ²⁹	10	0	6,000	800	0	0	1	0	0	0	1	0
242	Roundprairie, Wayne . . .	1940	10	0	x	x	0	0	1	1	0	0	1	0
243	South Mt. Erie, Wayne . . .	1939	10	0	x	x	0	0	1	0	0	0	1	0
244	West Enterprise, Wayne . . .	1940	360	0	105,000	105,000	0	0	13	13	0	0	13	0
245			^y	0	x	x	0	0	1	1	0	0	1	0
246			^y	0	x	x	0	0	12	12	0	0	12	0
247	Aden, Wayne, Hamilton . . .	1938	360	0	244,000	101,000	0	0	8	3	0	0	8	0
248	Burnt Prairie, White . . .	1940	400	0	146,000	146,000	0	0	18	18	0	0	18	0
249			^y	0	x	x	0	0	2	2	0	0	2	0
250			^y	0	x	x	0	0	16	16	0	0	16	0
251	Calvin, White	1939	1,360	0	606,000	601,000	0	0	117	115	0	0	117	0
252			^y	0	x	x	0	0	7	7	0	0	7	0

²⁹ Abandoned 1939, revived 1940.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940	Reservoir Pressure, Lb. per Sq. In. ⁴		Character of Oil	Producing Formation								Deepest Zone Tested to End of 1940		
					Producing Formation										
		Number of Wells	Initial	Avg. at End of 1940	Repressuring Operation ^d	Gravity, A.P.I. at 60° F. ⁵ Weighted Average	Sulphur, Per Cent	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.	Bottoms Prod. Wells	Net Thickness, Avg. Ft.	Structure ^h
198	0	2	x	x		x	x	Bethel	MisU	S	Por	2,570	2,576	6	
199	0	13	x	x		37.0	0.38	McClosky	MisL	L	Por	2,793	2,881	13	
200	0	2	x	x		37.6	0.26	McClosky	MisL	L	Por	2,703	2,714	6	
201	0	157													
202	0	2	x	x		x	x	Biehl	Pen	S	Por	1,753	1,764	14	
203	0	1	x	x		x	x	Clore	MisU	S	Por	1,761	1,785	9	
204	0	4	x	x		x	x	Palestine	MisU	S	Por	1,819	1,835	16	
205	0	149	x	x		38.6	0.29	Cypress	MisU	S	Por	2,433	2,454	17	
206	0	1						Biehl, Cypress ²⁷							
207	0	9													
208	0	1	x	x		x	x	Bethel	MisU	S	Por	2,120	2,132	12	
209	0	8	x	x		38.0	0.30	McClosky	MisL	L	Por	2,614	2,634	8	
210	0	6													
211	0	5	x	x		x	x	Cypress	MisU	S	Por	2,033	2,053	9	
212	0	1	x	x		36.6	0.36	Rosiclare	MisL	S	Por	2,368	2,411	4	
213	0	1	x	x		x	x	Tar Springs	MisU	S	Por	2,793	2,881	15	
214	0	27	x	x		39.8	0.28	McClosky	MisL	L	Por	2,683	2,700	9	
215	0	127	x	x		37.4	0.19	Bethel	MisU	S	Por	1,259	1,285	17	
216	0	3	x	x		31.0	0.26	Bethel	MisU	S	Por	1,359	1,370	11	
217	1	38													
218	0	33	x	x		37.6	0.16	Bethel	MisU	S	Por	1,537	1,550	10	
219	1	5	x	x		39.0	x	Devonian	Dev	L	Por	3,092	3,150	5	
220	0	1	x	x		x	x	Bethel	MisU	S	Por	982	1,039	12	
221	0	62													
222	0	2	x	x		x	x	{ Rosiclare ²⁷	MisL	S	Por	3,340	3,412	5	
223	0	59	x	x		37.6	0.17	{ McClosky	MisL	L	Por	3,385	3,412	11	
224	0	1	x	x		x	x	Salem	MisL	L	Por	3,792	3,855	y	
225	0	83													
226	0	1	x	x		x	x	Rosiclare	MisL	S	Por	3,273	3,277	4	
227	0	81	50+	x		40.2	0.14	McClosky	MisL	L	Por	3,250	3,277	14	
228	0	1						Rosiclare, McClosky ²⁷							
229	0	47	x	x		38.5	x	Aux Vases	MisU	S	Por	2,982	3,029	13	
230	0	2	x	x		x	x	Rosiclare	MisL	S	Por	3,010	3,160	y	
231	0	1	x	x					MisL	L	Por	3,121	3,178	9	
232	0	44	75+	x		35.8	0.24	McClosky	MisL						
233	16	135													
234	0	1	x	x		x	x	Aux Vases	MisU	S	Por	2,929	2,957	16	
235	0	2	x	x		x	x	{ Rosiclare ²⁷	MisL	S	Por	3,047	3,114	2	
236	16	132	100+	x		x	x	{ McClosky	MisL	L	Por	3,049	3,114	12	
237	0	1	x	x		34.4	0.18	McClosky	MisL	L	Por	3,377	3,399	7	
238	0	14	x	x		39.0	0.19	McClosky	MisL	L	Por	3,413	3,453	11	
239	0	1	x	x		39.8	0.18	McClosky	MisL	L	Por	3,080	3,092	y	
240	0	61	40+	x		39.0	0.17	McClosky	MisL	L	Por	3,321	3,341	12	
241	0	1	x	x		38.5	x	McClosky	MisL	L	Por	3,144	3,154	5	
242	0	1	x	x		x	x	McClosky	MisL	L	Por	3,172	3,300	3	
243	0	1	x	x		x	x	McClosky	MisL	L	Por	3,129	3,206	11	
244	0	13													
245	0	1	x	x		x	x	Aux Vases	MisU	S	Por	2,915	3,100	10	
246	0	12	x	x		x	x	McClosky	MisL	L	Por	3,018	3,071	7	
247	0	8	x	x		40.0	x	McClosky	MisL	L	Por	3,287	3,337	7	
248	0	18													
249	0	2	x	x		x	x	Rosiclare	MisL	S	Por	3,260	3,404	9	
250	0	16	x	x		37.0	0.28	McClosky	MisL	L	Por	3,425	3,432	11	
251	4	113													
252	0	7	x	x		36.0	0.19	Tar Springs	MisU	S	Por	2,211	2,223	17	

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells						
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	During 1940	During 1940		Completed	Abandoned	Temporarily Shut Down	Producing Oil ^c	Producing Gas ^c
									Completed to End of 1940	Completed					
253															
254			y	0	x	x	0	0	18	18	0	0	18	0	
			y	0	x	x	0	0	6	6	0	0	6	0	
255			y	0	x	x	0	0	31	30	0	0	31	0	
256			y	0	x	x	0	0	13	13	0	0	13	0	
257			y	0	x	x	0	0	12	11	0	0	12	0	
258									1	1	0	0	1	0	
259									1	1	0	0	1	0	
260									23	23	0	0	23	0	
261									4	4	0	0	4	0	
262											1	1	0	0	
263	Carmi, White	1940	10	0	500	500	0	0	1	1	0	0	1	0	
264	Centerville, White	1940	50	0	49,000	49,000	0	0	3	3	0	0	3	0	
265	Herald, White	1940	30	0	4,000	4,000	0	0	3	3	0	0	3	0	
266			y	0	x	x	0	0	2	2	0	0	2	0	
267			y	0	x	x	0	0	1	1	0	0	1	0	
268	Iron, White	1940	760	0	1,111,000	1,111,000	0	0	46	46	0	1	45	0	
269			y	0	x	x	0	0	1	1	0	0	1	0	
270			y	0	x	x	0	0	27	27	0	1	26	0	
271			y	0	x	x	0	0	1	1	0	0	1	0	
272			y	0	x	x	0	0	17	17	0	0	17	0	
273	Mill Shoals, White	1939	640	0	711,000	583,000	0	0	50	28	0	1	49	0	
274			y	0	x	x	0	0	33	20	0	0	33	0	
275			y	0	x	x	0	0	14	5	0	0	14	0	
276			y	0	x	x	0	0	3	3	0	1	2	0	
277	New Harmony, White	1939	1,210	0	920,000	920,000	0	0	87	76	1	1	85	0	
278			y	0	x	x	0	0	14	4	0	0	14	0	
279			y	0	x	x	0	0	2	2	0	0	2	0	
280			y	0	x	x	0	0	12	12	0	0	12	0	
281			y	0	x	x	0	0	5	5	0	0	5	0	
282			y	0	x	x	0	0	1	1	0	0	1	0	
283			y	0	x	x	0	0	1	1	0	0	1	0	
284			y	0	x	x	0	0	39	38	1	1	37	0	
285									2	2	0	0	2	0	
286									3	3	0	0	3	0	
287									2	2	0	0	2	0	
288									1	1	0	0	1	0	
289									1	1	0	0	1	0	
290									3	3	0	0	3	0	
291									1	1	0	0	1	0	
292	Phillipstown, White	1939	80	0	61,000	52,000	0	0	6	4	0	0	6	0	
293			y		x	x	0	0	2	1	0	0	2	0	
294			y		x	x	0	0	4	3	0	0	4	0	
295	Roland, White	1940	10	0	3,000	3,000	0	0	1	1	0	0	1	0	
296	Stokes, White	1939	240	0	167,000	107,000	0	0	11	5	0	0	11	0	
297	Storms, White	1939	1,400	30	1,548,000	1,517,000	0	0	130	113	0	0	127	3	
298	Total for fields after Jan. 1, 1937 ³⁰		76,410	1,630	255,685,000	142,122,000	1,955.5	890.4	8,095	3,006	83	20	7,901	44	
299	Total for Illinois ³¹		175,010	17,460	698,696,000	146,788,000	4,340.1	904.2	28,710	3,080	410	367	20,946	51	

³⁰ Total of lines 89 to 297 inclusive.³¹ Total of lines 88 and 298.

TABLE 1.—(Continued)

Oil-production Methods, End of 1940	Reservoir Pressure, Lb. per Sq. In. ⁴	Character of Oil	Producing Formation								Deepest Zone Tested to End of 1940					
			Number of Wells	Repressuring Operation ^d	Gravity, A.P.I. at 66° F. ⁵	Weighted Average	Sulphur, Per Cent	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.				
Line Number	Flowing	Artificial Lift	Initial	Avg. at End of 1940							Top Prod. Zone	Bottoms Prod. Wells	Net Thickness, Avg. Ft.	Structure ^h	Name	Depth of Hole, Ft.
253 0	18	x	x	x												
254 0	6	x	x	x												
255 0	31	x	x	36.0	0.24											
256 3	10	x	x	x												
257 0	12	x	x	x												
258 0	1	x	x	x												
259 0	1	x	x	x												
260 0	23	x	x	x												
261 1	3	x	x	x												
262 0	1	x	x	x												
263 0	1	x	x	x												
264 0	3	x	x	38.0	x											
265 0	3	x	x	x												
266 0	2	x	x	28.0	x											
267 0	1	x	x	35.0	x											
268 0	45	x	x	x												
269 0	1	x	x	x												
270 0	26	x	x	37.2	0.29											
271 0	1	x	x	x												
272 0	17	x	x	38.5	x											
273 0	49	x	x	x												
274 0	33	x	x	39.8	0.14											
275 0	14	x	x	38.0	0.16											
276 0	2	x	x	x												
277 4	81	x	x	37.6	0.40											
278 6	14	820+	x	38.0	x											
279 0	2	x	x	x												
280 0	12	x	x	x												
281 0	5	x	x	x												
282 0	1	x	x	x												
283 0	1	x	x	x												
284 4	33	x	x	39.2	0.20											
285 0	2	x	x	x												
286 0	3	x	x	x												
287 0	2	x	x	x												
288 0	1	x	x	x												
289 0	1	x	x	x												
290 0	3	x	x	x												
291 0	1	x	x	x												
292 0	6	x	x	39.4	x											
293 0	2	x	x	38.2	0.21											
294 0	4	x	x	x												
295 0	1	x	x	x												
296 0	11	x	x	35.8	0.26											
297 0	127	x	x	32.1	0.28											
298 600	7,301	x	x	x												
299 600	20,346	x	x	x												

TABLE 2.—Summary of Drilling and Initial Production in Illinois for 1940

County	Number of Wells Drilled in 1940			Total Initial Production		Footage Drilled in 1940	
	Total Com- ple- tions	Total Producing		Oil, Bbl.	Gas, Thou- sands Cu. Ft.	Total	Producing Wells
		Oil	Gas				
Adams	1	0	0	0	0	465	0
Alexander	1	0	0	0	0	2,019	0
Bond	54	26	1	1,932	2,000	74,392	30,670
Brown	2	0	0	0	0	1,380	0
Bureau	3	0	0	0	0	2,270	0
Cass	1	0	0	0	0	1,070	0
Christian	1	0	0	0	0	1,330	0
Clark	15	5	1	51	10	24,930	7,971
Clay	37	23	0	3,066	0	111,212	69,247
Clinton	450	369	0	416,641	0	1,130,516	959,806
Coles	9	1	0	121	0	19,942	2,027
Crawford	13	1	0	12	0	31,548	2,981
Cumberland	1	0	0	0	0	710	0
DeKalb	1	0	0	0	0	520	0
DeWitt	1	0	0	0	0	1,570	0
Douglas	2	0	0	0	0	1,245	0
Edgar	10	0	0	0	0	7,090	0
Edwards	79	62	0	25,863	0	242,954	181,921
Effingham	12	3	0	488	0	25,563	5,629
Fayette	577	515	0	92,163	0	1,006,255	895,656
Ford	1	0	0	0	0	2,225	0
Franklin	20	16	0	4,138	0	62,819	50,200
Fulton	1	0	0	0	0	815	0
Gallatin	24	12	0	770	0	54,249	25,130
Greene	1	0	0	0	0	750	0
Hamilton	92	78	0	15,340	0	275,545	228,956
Hancock	2	1	0	1	0	1,057	372
Henderson	1	0	0	0	0	802	0
Henry	1	0	0	0	0	725	0
Iroquois	1	0	0	0	0	1,485	0
Jackson	5	0	0	0	0	10,285	0
Jasper	63	47	0	34,660	0	179,161	134,047
Jefferson	33	16	0	1,233	0	75,819	32,331
Jersey	3	0	0	0	0	4,265	0
Johnson	1	0	0	0	0	4,165	0
Knox	1	0	0	0	0	1,355	0
Lawrence	28	6	9	162	95,321	49,347	23,532
Logan	1	0	0	0	0	1,535	0
McDonough	9	3	0	2	0	7,137	1,381
Macon	4	0	0	0	0	9,524	0
Macoupin	9	0	0	0	0	5,394	0
Madison	7	0	0	0	0	15,120	0
Marion	952	890	0	944,925	0	2,794,599	2,636,964
Massac	2	0	0	0	0	5,365	0
Menard	1	0	0	0	0	1,063	0
Monroe	16	8	0	412	0	13,878	5,106
Montgomery	40	6	0	122	0	37,319	4,135
Peoria	1	0	0	0	0	1,011	0
Perry	8	0	0	0	0	14,866	0
Pike	4	0	0	0	0	1,571	0
Pope	2	0	0	0	0	3,090	0
Randolph	9	1	0	5	0	10,954	938
Richland	111	99	1	31,277	5,000	321,696	285,759
St. Clair	24	15	0	1,207	0	19,523	8,599
Saline	5	0	0	0	0	14,699	0
Schuylerville	7	0	0	0	0	5,407	0
Scott	1	0	0	0	0	935	0
Shelby	11	2	0	57	0	23,357	4,102
Tazewell	2	0	0	0	0	1,675	0
Wabash	202	142	0	23,707	0	497,737	345,826
Washington	102	76	0	9,284	0	158,133	117,602
Wayne	265	229	0	68,179	0	855,462	728,125
White	479	412	4	77,355	70,750	1,325,101	1,133,451
Williamson	5	0	0	0	0	10,488	0
Woodford	2	0	0	0	0	3,945	0
Total	3,829	3,064	16	1,753,171	173,081	9,573,034	7,922,464

ECONOMIC DATA

On the basis of posted prices, the total value of the oil produced in 1940 was approximately \$158,746,200. The average price calculated from the available data on production and prices for the state was \$1.05 per barrel to Aug. 21 and \$1.15 per barrel for the remainder of the year. Posted prices for Illinois crude oil in 1940 were as shown in Table 3.

TABLE 3.—*Posted Prices for Illinois Crude in 1940*

Beginning Date	Oct. 21, 1939	May 25, 1940	Aug. 1, 1940	Aug. 21, 1940	Dec. 31, 1940
Old fields.....	\$0.95	\$0.95	\$0.95	\$1.00	\$1.00
Central basin fields.....	1.05	1.05	1.05	1.15	1.15
Salem area.....	1.05	1.05	1.05	1.15	1.15
Griffin area.....	0.95	1.00	1.05	1.15	1.15

In 1940, a total of 9,573,034 ft. of hole was drilled in the state. Of this amount 7,922,464 ft. was drilled in producing wells. If an average cost of \$3.00 per foot is assumed, the total investment in drilling was \$28,719,102, including both producing wells and dry holes. The average depth of all wells drilled in the state in 1940 was 2500 ft., which is almost 500 ft. deeper than a year ago. This difference is accounted for in the development of deeper "pays" in proven fields and exploration in the deep basin area.

The average initial daily production of the oil wells was 573 bbl., an increase of 195 bbl. per well over last year's figure. The increase is due to the large Devonian wells in Salem and Centralia fields.

PIPE LINES AND REFINERIES

Pipe-line construction in Illinois was less extensive in 1940 than in the previous year. The construction of crude-oil lines was principally to provide outlets for the new fields in Wabash, White and Hamilton Counties. It is estimated that the total daily capacity of the crude-oil lines in the state is approximately 550,000 bbl. Pipe-line construction in Illinois during 1940 was as follows:

Crude Oil

Illinois Pipe Line Co.—16 miles 8-in., 40 miles 10-in., Enfield, Ill., White County, to Bridgeport, Ill.; 8 miles 10-in. "loop," Sandoval to Patoka.

Texas Company.—42 miles 10-in. "loop," Salem field to Heyworth; 38 miles 12-in. "loop," Heyworth to Wilmington.

Shell Oil Co., Inc.—6 miles 8-in., Centralia field to Sandoval, Ill.

Superior Oil Co.—28 miles 6-in., Albion pool to Mt. Vernon, Ind.

Sohio Pipe Line Co.—32 miles 4-in., Dale field to Mt. Vernon, Ind.

Gulf Refining Co.—10 miles 6-in. and 8-in., Centralia field to trunk line near Boulder, Ill.

Sun Oil Co.—11 miles 6-in., Centerville field to New Harmony field.

Hal R. Compton.—35 miles 4-in. outlets to fields in White, Wabash, Edwards Counties.

Gasoline

Lawrence Pipe Line Co.—55 miles 6-in. gasoline line Lawrenceville, Ill. to Mt. Vernon, Ind.

Natural Gas

Panhandle Eastern Pipeline Co.—28 miles 24-in., 50 miles 22-in., 24 miles 20-in. loops in line across central Illinois.

Natural Gas Pipe Line Co. of America.—under construction, 162 miles 20-in. Geneseo, Ill. to Milwaukee, Wis.

Early in 1940 the capacities of most refineries in the state were enlarged in order to handle the increased supply of Illinois crude oil. The Wood River Oil and Refining Co. constructed a new refinery near Wood River, Ill., with a daily capacity of 7500 bbl. This brings the total capacity of all refineries in the state up to 258,750 bbl. daily, an increase of 65,400 bbl. over the capacity a year ago.

Owing to the decline in production during the latter part of 1940, and the increased price of crude oil, eight small refineries having a capacity of 2000 bbl. or less per day, located near the new fields in southern Illinois shut down operations. At the end of the year 21 of the 29 refineries in the state were in operation.

TABLE 4.—Discovery Wells of New Fields and Extensions in Illinois for 1940

³ Formerly considered a new pool; now classed as extension to New Harmony pool.

³ Formerly considered a no-

Extension.

1

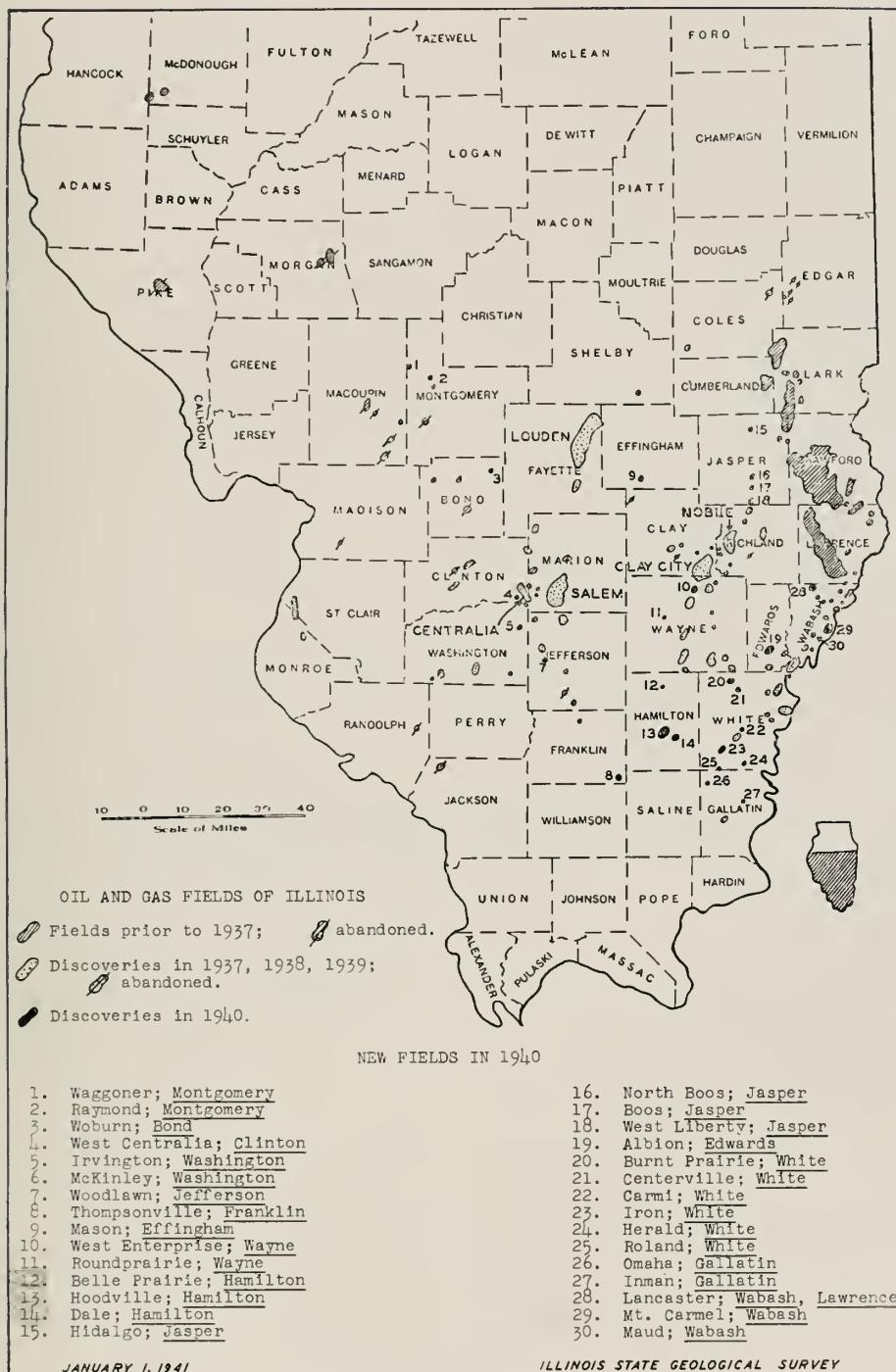


FIG. 2.—OIL AND GAS FIELDS OF ILLINOIS, LISTING THE DISCOVERIES IN 1940.

TABLE 5.—*Important Deep Tests in Illinois in 1940*

County	Pool or Wildcat	Location	Company	Farm No.	Total Depth, Ft.	Deepest Formation Tested	Top, Ft.	Remarks	Date Completed
Clinton.....	Centralia	NW NE NE 13-1N-1W	Borton	Storer 1	4,120 4,070 PB	"Trenton"	4,012	100 bbl.	12-3-40
Clinton.....	Carlyle	SE NE SE 3-2N-3W	Schwarz	Schlafly 1	4,120	St. Peter	4,106	Dry	1-7-41
Clinton.....	Centralia	SW NE SE 12-1N-1W	Ames	Hicks 2	4,068	"Trenton"	4,018	120 bbl.	7-2-40
Clinton.....	Wilcat	NE NE SW 17-3N-4W	Tatum	Schrage 1	3,549	St. Peter	3,516	Dry	7-16-40
Clinton.....	Wilcat	SW SE SE 33-2N-4W	Trumbell	Peters 1	3,305	"Trenton"	3,210	Dry	7-23-40
Coles.....	Mattoon	NW NE SW 35-12N-7E	Carter	Seaman 1	4,908	St. Peter	4,689	Dry	5-14-40
Edwards.....	Albion	NW NE SW 19-2S-11E	Superior Oil	Green 1	5,185	Devonian	4,907	Dry	7-9-40
Edwards.....	Wilcat	SE SE NE 36-2S-10E	Superior Oil	Scott 1	5,196	Devonian	4,951	Dry	8-27-40
Jackson.....	Wilcat	SW SE SE 35-9S-5W	Trumbell	Bennett 1	2,950	"Trenton"	2,755	Dry	9-24-40
Jackson.....	Wilcat	SW SW SW 32-10S-3W	Manellin	Baysinger 1	2,294	St. Peter	2,288	Dry	9-20-40
Jackson.....	Wilcat	SE SE NE 9-8S-3W	Magnolia Petr.	Smith 1	3,893	"Trenton"	3,705	Dry	12-31-40
Jasper.....	West Liberty	C 1/2 NE NW 16-2N-10E	Pure Oil	Redman 1	4,584	Devonian	4,316	Dry	7-9-40
Marion.....	Sandoval	SW SE SW 4-2N-1E	Martin	Robinson 1	5,023	St. Peter	4,978	Dry	1-14-41
Marion.....	Salem	SW NE SW 29-2N-2E	P. Ross	Brooks 8	4,618	"Trenton"	4,505	130 bbl.	2-4-41
Marion.....	Fairman	C 1/2 NE NW 18-3N-1E	Shell Oil	Ververs 6-C	4,100	"Trenton"	3,927	Dry	10-29-40
Marion.....	Paokka	NE NE SW 28-4N-1E	Jones et al.	Majonniere 2	2,956	Devonian	2,886	Dry	3-5-40
Monroe.....	Wilcat	SE SW SE 19-1S-10W	Hoffer	Boyer 2	2,270	Cambrian	2,200	Dry	8-13-40
Randolph.....	Wilcat	SW NW SW 16-7S-7W	Anderson	Cassatt 1	1,698	"Trenton"	1,555	Dry	8-13-40
Wayne.....	Cisne	C E 1/2 SE NE 27-1N-7E	Pine Oil	Billington 3	7,207	St. Peter	7,114	Dry	5-14-40
Wayne.....	N. Aden	SW NW SW 33-2S-7E	Rockhill	Twist A-7	5,393	Devonian	5,135	Dry	8-6-40
Phillipstown.....	Phillipstown	C W 1/2 NW NW 31-4S-11E	Phillips Petr.	Garr 1	5,349	Devonian	4,885	Dry	5-14-40
White.....	Wilcat	NW SW NE 13-3S-8E	Kingwood	Martin 1	5,225	Devonian	4,888	Dry	7-2-40

During the year, 79.5 per cent of Illinois' crude-oil production was sent to refineries in the Central refining district (Illinois, Indiana, Kentucky, Michigan, and western Ohio), 16.0 per cent to the Appalachian refining district (eastern Ohio, western New York, western Pennsylvania, and West Virginia), and 4.5 per cent to the Atlantic seaboard. For December 1940 the runs to stills in the Central and Appalachian refining districts were 23,196,000 bbl. Of this amount, Illinois production was 44.7 per cent. Stocks of crude petroleum on hand in Illinois on Dec. 31, 1940, were 13,944,000 bbl., as compared with 12,983,000 bbl. on Dec. 31, 1939. Stocks of refined products in the Central and Appalachian refining districts compared with the previous year are as follows:

Product	Dec. 31, 1940, Bbl.	Dec. 31, 1939, Bbl.
Gasoline.....	19,305,000	17,465,000
Gas oil and distillate fuel.....	9,665,000	4,759,000
Residual fuel oil.....	3,248,000	3,514,000

PRODUCTION OF NATURAL GAS

Natural gas was marketed from the Ayers and Russellville gas fields and the Salem and Louden oil fields during 1940. The Ayers gas field, in Bond County, produced 13,777,300 cu. ft. of gas in 1940, which brings the total production from the field to 194,403,400 cu. ft. Production is at an average depth of 940 ft. from the Aux Vases sandstone of the Chester series. The field has a productive area of 325 acres and the average thickness of the "pay" is 5 ft. Seven wells are producing, none of which was new in 1940. They supply gas to the city of Greenville, Illinois.

Continued development during 1940 in the Russellville gas field in northeastern Lawrence County increased the productive acreage to 1600 acres, which is 680 acres more than a year ago. As of Jan. 1, 1941, there were 41 producing wells in the field. Production is from the Buchanan sand of lower Pennsylvanian age, which is encountered at a depth of 1090 ft. The average thickness of the "pay" is 10 ft. The total production for the field to the end of 1940 was 1,955,500,000 cu. ft., 890,400,000 cu. ft. being produced in 1940.

TABLE 6.—*Illinois Completions and Production Since Jan. 1, 1936*

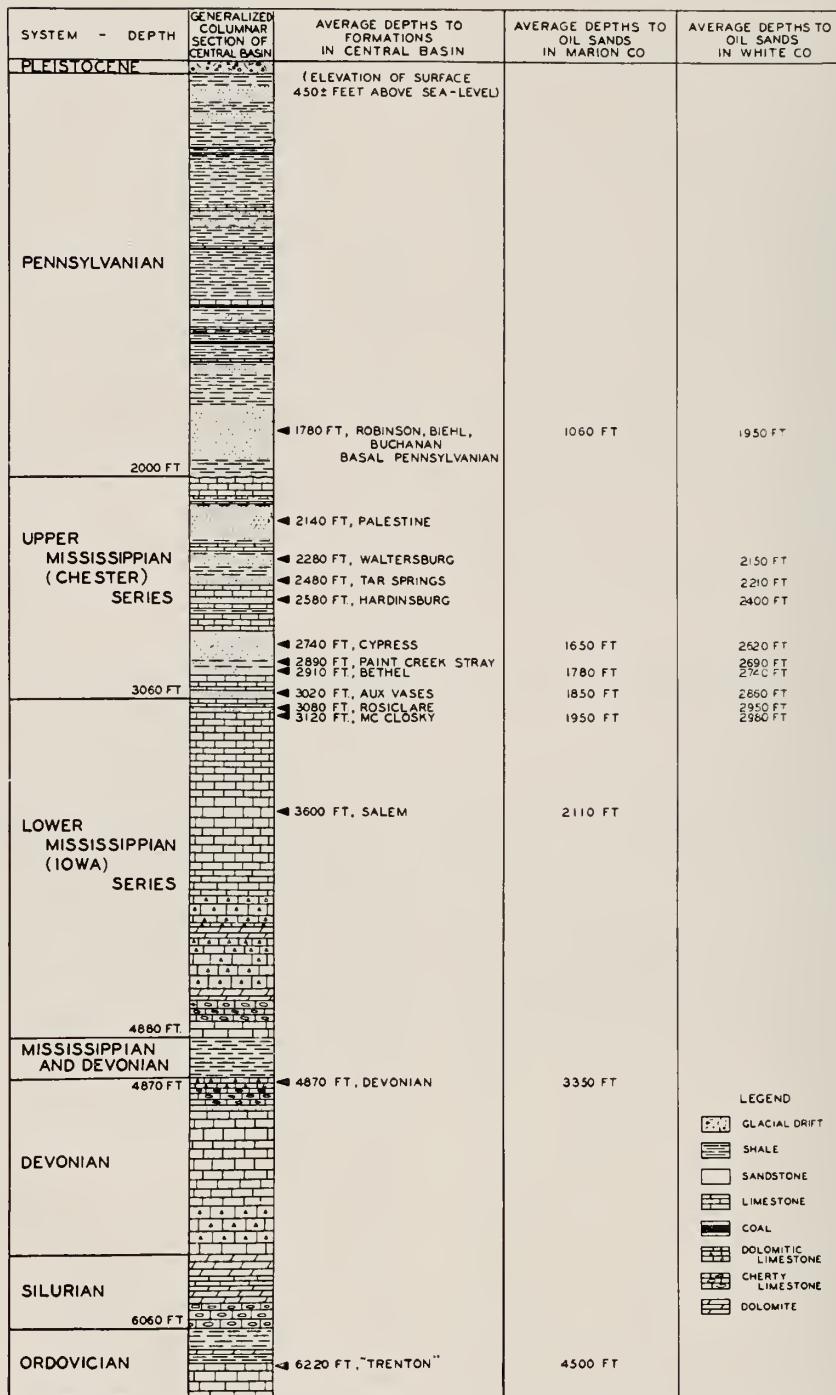
Date	Number of Completions	Number of Producing Wells	Production, ¹ Thousands Bbl.		
			New Fields	Old Fields ²	Total
1936	92	52			4,445
1937.....	449	292	2,884	4,542	7,426
1938.....	2,541	2,010	19,771	4,304	24,075
1939.....	3,675	2,970	90,908	4,004	94,912
1940:.....					
Jan.....	234	183	11,172	328	11,500
Feb.....	306	268	11,372	355	11,727
March.....	281	242	13,244	336	13,580
Apr.....	286	254	12,564	347	12,911
May.....	399	342	13,427	406	13,833
June.....	391	338	14,793	401	15,194
July.....	341	251	13,381	424	13,805
Aug.....	414	313	11,640	435	12,075
Sept.....	333	262	10,520	405	10,925
Oct.....	280	213	10,365	430	10,795
Nov.....	328	245	9,702	387	10,089
Dec.....	236	169	9,957	397	10,354
	3,829	3,080	142,137	4,651	146,788

¹ The figures for total production are from the U. S. Bureau of Mines; other figures are from various sources.

² Includes Devonian production at Sandoval and Bartels.

Natural-gas production for 1940 in the Louden field is estimated to be approximately 11 billion cu. ft. The average daily production in December 1940 was estimated to be 28,000,000 cu. ft. Of this amount 10,000,000 cu. ft. of gas was processed in the Carter Oil Company's two natural-gasoline plants. There is a shrinkage of 2,800,000 cu. ft. of gas in the plants, which is accounted for in the natural gasoline, butane, and propane produced and in fuel for plant operation. The total yield of natural-gasoline butane and propane is approximately 3.2 gal. per thousand cubic feet of "wet" gas. Two and one-half million cubic feet of the "dry" residue gas was injected daily into the producing sands through 63 input wells.

The Town of St. Elmo, Ill. and local industries are supplied by the Monarch Gas Co. with this residue gas from the natural-gasoline plants and from a lease in the field that is producing "dry" gas from a basal Pennsylvanian sandstone, encountered at a depth of 1071 ft. The amount of residue gas marketed during 1940 was 215,376,000 cu. ft. and the amount of gas marketed from the lease was 13,575,000 cu. ft. The Monarch Gas Co. constructed a pipe line to Brownstown, Ill., to supply the town with natural gas starting about Jan. 1, 1941.



JANUARY 1, 1941

ILLINOIS STATE GEOLOGICAL SURVEY

FIG. 3.—ROCK SERIES AND OIL-PRODUCING STRATA IN ILLINOIS BASIN AREA.

In the Louden field during December 1940, approximately three million cubic feet of "wet" gas was used daily in field operations and the remaining 15,000,000 cu. ft. was burned in flares.

The production of natural gas with the oil in the Salem field for 1940 is estimated to be 71 billion cu. ft. The average daily production for December is estimated to be 117,000,000 cu. ft. Of this amount 52 million cu. ft. of gas was processed daily in the three natural-gasoline plants in the field. The plants are owned and operated by the Texas Company, Warren Petroleum Co., and the Sunflower Natural Gasoline Co. The total yield of natural gasoline, butane, and propane is approximately 2.6 gal. per thousand cubic feet of "wet" gas.

The city of Salem, Ill., is using residue gas from the Sunflower Natural Gasoline Company's plant and the Warren Petroleum Company's natural-gasoline plant in the Salem field. The city began to use the gas about Oct. 1, 1940, and is taking approximately 350,000 cu. ft. daily.

A small amount of the gas produced in the field is used in field operations and the remainder of the "wet" gas and the "dry" gas not marketed or returned to the producing formation is burned in flares.

Natural-gas production in the Centralia field during 1940, which was principally from the Devonian limestone, was estimated to be approximately 10 billion cu. ft. Gas production in the field was greatest during the development of the Devonian limestone early in 1940, when the gas-oil ratio was 2000 cu. ft. per barrel. During December 1940, it was estimated that the gas production was approximately 4,000,000 cu. ft. daily. Natural gas from the Devonian limestone is used in repressuring the Cypress and Bethel sandstones on two leases in the field. In three input wells 100,000 cu. ft. of gas daily is injected in the Bethel sandstone and 60,000 cu. ft. of gas is injected daily in the Cypress sandstone through one input well.

The total volume of gas produced in the Storms field, White County, during 1940 was estimated to be approximately 22 billion cu. ft. The daily production during December was estimated to be 18,000,000 cu. ft. This is a considerable decrease from the beginning of the year, when the production was estimated to be

100,000,000 cu. ft. daily. As of Jan. 1, 1940, there were 130 producing wells in the field, three of which were strictly gas wells that were shut in. The initial production of gas produced with the oil in some wells completed in the field during 1940 was as much as 30,000,000 cu. ft. daily. As yet no gas has been marketed from the field.

Gas production in the Central basin fields in Jasper, Richland, Clay, Wayne, and Northwestern White Counties has declined during 1940, particularly in the older fields such as Clay City and Noble. The total gas production during 1940 for this area is estimated to be approximately 16 billion cu. ft. with a daily production of approximately 45,000,000 cu. ft. None of the gas is marketed, but much is used in lease operations and heat treatment of the oil.

Natural gas was discovered in the W. N. Lee et al.-Thomas Sharf No. 1, C. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T. 7 N., R. 4 W., Bond County, on the Panama dome, which is a structure mapped on coal No. 6.¹ The gas sand, which is of lower Pennsylvanian age, was found at a depth of from 555 to 595 ft. The initial production of the well was 500,000 cu. ft. A well was drilled offsetting the Sharf No. 1, which had an estimated initial production of 1,000,000 cu. ft. More wells are to be drilled in the area in an attempt to obtain a sufficient supply of gas for marketing.

NATURAL GASOLINE

Natural gasoline is produced at some 46 plants in the old southeastern field, at three plants in the Salem field and at two plants in the Louden field. According to the U. S. Bureau of Mines,² Illinois produced 21,432,000 gal. of natural gasoline in 1940. In January, the amount was 998,000 gal.; the other months ran from 1,062,000 to 3,461,000 (December). Statistics on the production of propane and butane in 1940 are not yet available.

EXPLORATION METHODS

Subsurface geology and geophysics, largely the reflection seismograph, are still the principal methods used in guiding exploration and development. Most of the

¹ A. H. Bell: The Sorento Dome, Ill. Geol. Survey Illinois Petroleum No. 6, p. 7, fig. 2, 1925.

² G. R. Hopkins, personal communication, April 3, 1941.

seismograph activity during 1940 was in southern Illinois in White, Hamilton, Franklin, Williamson, Saline and Gallatin Counties. The number of seismograph parties operating in the state throughout the year was as follows:

Date	Number of Parties	Date	Number of Parties
Jan. 1, 1940.....	7	Oct. 1, 1940.....	9
Apr. 1.....	13	Jan. 1, 1941.....	7
July 1.....	11		

Gravimeter exploration was conducted by at least three major companies during the year and a number of magnetometer surveys were made in the Illinois basin.

Several companies and individuals have employed geochemical and electrical exploration methods in many areas of southern Illinois. The exploration work was done principally by four companies with district representatives in the state. These methods have been used for both reconnaissance and detail studies.

DEEP TESTS DURING 1940 (TABLE 5)

The St. Peter sandstone was tested in the Carlyle, Mattoon, Sandoval and Cisne fields but was not found productive. In the Carter Oil Company's Seaman No. 1 well in the Mattoon field, there was a show of oil at a depth of 4690 ft. in the Glenwood sandstone overlying the St. Peter sandstone. No shows of oil were reported below the McClosky limestone in the Pure Oil Company's Stella Billington No. 3, drilled in the Cisne pool. This well, which is the deepest well drilled in the state to date, was abandoned at a depth of 7207 ft. The top of the St. Peter sandstone was encountered at a depth of 7114 ft. The sandstone was so hard and "tight" that many drilling bits were used in the thickness penetrated.

Another St. Peter test of considerable interest was the Texas Company's Tate No. 21 well in the Salem pool, which was completed early in 1941. The total depth of the well was 5655 ft., 405 ft. below the top of the St. Peter sandstone, which was reached at a depth of 5250 ft. The St. Peter was found to be 167 ft. thick. No shows were reported below the "Trenton" limestone.

The "Trenton" limestone was tested in the Fairman, Centralia and Salem fields and was found productive in the last two mentioned. Production from this formation was small in the Centralia pool but was somewhat better in the Salem pool.

The Devonian limestone was tested in Albion, West Liberty, Patoka, North Aden and Phillipstown fields, but it was not productive.

There is a revived interest in the possibility of deeper production in the old Allendale field in northeastern Wabash County. Early in 1941 a well was completed in the Bethel sandstone at a depth of 2,011 feet which had an initial production of 250 barrels on pump. The well was drilled in one of the areas recommended for deeper testing by the Illinois Geological Survey.³ Other wells have since been completed in the Bethel sandstone in this area.

SECONDARY RECOVERY

Repressuring.—Repressuring of the Bethel and Aux Vases sandstones of the Chester series and the McClosky limestone of the lower Mississippian system in the Salem field was continued by the Texas Company. At the end of the year about 2.5 million cu. ft. of "dry" gas daily was being injected into 32 gas-input wells. Thirteen new input wells were drilled in 1940 and eight formerly producing wells were changed to gas-input wells.

Additional gas-input wells were drilled by the Carter Oil Co. for its repressuring project in the Louden field during 1940. On Dec. 31, 1940, there were 63 input wells in operation in the Cypress, Paint Creek "Stray" and Bethel sandstones of the Chester series. The total daily amount of "dry" gas returned to the producing formations was 2.5 million cubic feet.

Repressuring of the Cypress and Bethel sandstones in the northern part of the Centralia field was begun during the latter part of 1940. One input well was drilled to the Cypress sandstone on one lease and 60,000 cu. ft. of gas from the Devonian limestone is injected daily into the formation. Three input wells were drilled to the Bethel sandstone on another lease and 100,000 cu. ft. of gas is injected daily.

³ G. F. Moulton: Deeper Production in the Allendale Oil Field, Ill. Geol. Survey, Illinois Petroleum No. 12 p. 16, fig. 2, 1927

into this formation. An increase in gas volume and some increase in oil production was obtained in the wells on the lease.

Water-flooding.—Water-flooding of the McClosky limestone by the Pure Oil Co. on the B. Travis lease, sec. 33, T. 3 N., R. 8 E., Clay County, was discontinued early in 1940. Another project was started in March 1940 on the T. H. Tetrick lease, sec. 9, T. 2 N., R. 8 E., Clay County, by the same company. The experiment was conducted until October 1940, during which time 225,000 bbl. of water was injected into the McClosky limestone. Both experiments were discontinued because of

the inconclusive and conflicting evidence regarding the effects upon production.

During 1940 there was little change in repressuring or water-flooding operations in the old southeastern Illinois field or in the old fields of western and southwestern Illinois.

ACKNOWLEDGMENTS

The writers are indebted to many companies and individuals who furnished data for this report. Dr. W. H. Easton, Mr. R. B. Ralston and Mr. W. F. Meents, all of the Survey staff, assisted in the compilation of statistical data.

TABLE 7.—WILDCAT WELLS DRILLED IN 1940

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Remarks
		Sec.	Twp.	Rge.				
1	Adams	13	1 N	9 W	465	“Niagaran”	Menne et al, H. Summers 1	Dry
2	Alexander	35	15 S	2 W	2,019	St. Peter	Arnold & Middleton, Hodges 1	Dry
3	Bond	21	6 N	4 W	1,874	Devonian	Bond Oil Co., Bogel 1	Dry
4	Bond	28	6 N	4 W	1,450	Mississippian	R. E. Jones, Huber 1	Dry
5	Bond	29	7 N	4 W	1,965	Devonian	Paul Harr—F. F. Thacker 1	Dry
6	Bond	28	6 N	4 W	1,882	Devonian	Central States et al, L. Rich 1	Dry
7	Bond	22	5 N	3 W	2,369	Devonian	Seaboard Oil Co., O. Tremblar 1	Dry
8	Bond	16	5 N	2 W	2,565	Devonian	Dickerson et al, S. York 1	Dry
9	Bond	29	5 N	2 W	2,547	Devonian	W. F. Lacy, Cartmell 1	Dry
10	Bond	22	6 N	2 W	2,458	Devonian	Swan-King, Dr. Brown 1	Dry
11	Bond	26	7 N	4 W	605	Pennsylvanian	Smith, Desborough 1	Dry
12	Bond	27	7 N	4 W	2,012	Devonian-Silurian	W. N. Lee et al—Thomas Sharf 1	Dry
13	Bond	19	4 N	2 W	2,574	Devonian	W. H. Dickerson, Wise 1	Dry
14	Bond	2	6 N	2 W	1,053	Bethel	M. Pray, Buchanan 1	Dry
15	Bond	33	7 N	2 W	1,178	Bethel	Arrow Drilling Co., Snow 1	Dry
16	Bond	3	6 N	2 W	1,110	Site, Geneva	Arrow Drilling Co., Stoneburner 1	Dry
17	Bond	30	6 N	3 W	2,181	Devonian	Kingwood Oil Co., Gofinet 1	Dry
18	Bond	18	5 N	3 W	2,290	Devonian	Kingwood Oil Co., Hentz 1	Dry
19	Bond	28	6 N	4 W	1,971	Devonian	Central States, G. Rich 1	Dry
20	Bond	27	7 N	4 W	612	Pennsylvanian	Miller, McCario 1	Dry
21	Bond	18	6 N	2 W	710	Chester	W. N. Lee—Robinson 1	Dry
22	Bond	21	6 N	2 W	1,181	St. Louis	Shell Oil Co., Dunnigan 1	Dry
23	Bond	26	6 N	4 W	1,278	Lindley	Brainerd, Lindley 1	Dry
24	Bond	25	4 N	3 W	1,155	Bethel	Paul Hollerman, C. Basler 1	Dry
25	Bond	7	5 N	2 W	2,565	Devonian	J. B. Barnes, Watts 1	Dry
26	Bond	28	5 N	4 W	940	Bethel	J. Harding, Gottfried 1	Dry
27	Bond	9	6 N	2 W	1,060	Aux Vases	Bragassa, G. K. Hughey 1	Dry
28	Bond	10	6 N	2 W	1,021	Bethel	National Refining Co.—Spindler 1	Prod.*
29	Brown	7	2 S	3 W	730	“Niagaran”	F. M. Coleman, S. Newenham 1	Dry
30	Brown	32	2 S	4 W	650	“Trenton”	Buchi, H. Deane 1	Dry
31	Bureau	24	15 N	9 E	1,050	Maquoketa	Harrington Fros., Miller 1	Dry
32	Bureau	2	18 N	8 E	720	Silurian	Kerchner et al—Guither 1	Dry
33	Bureau	24	18 N	8 E	500	Silurian	F. E. Webb, Abrahams 1	Dry
34	Cass	2	17 N	10 W	1,070	Devonian	Cass Comm., Oil Co., J. Maslin 1	Dry
35	Christian	7	13 N	1 E	1,330	Fredonia	Moore et al, Meyers 1	Dry
36	Clark	4	8 N	11 W	2,803	“Niagaran”	H. R. Snavely, S. Freeman 1	Dry

10	11	W	2,479	Devonian	Ohio Oil Co.—A. Davidson 1
			3	Ste. Genevieve	Benedum and Trees, Hagan 1
			28		W. C. McBride, Landreth 1
			338		Kingwood Oil Co., Neff 1
			338		A. R. Madden, Sloan 1
			27	Ste. Genevieve	Kingwood Oil Co., Dank 1
			5		W. C. McBride, Inc., Smith 1
			5	Ste. Genevieve	Shulman, G. F. Hardy 1
			5		Kingwood Oil Co., Wolfe 1
			40	Ste. Genevieve	Lagall Oil Co., Huffman 1
			14		Schuman Bros., L. Dehart 1
			6	Devonian	Dee Miller, Smith 1
			5		N. J. Murphy, Sharp 1
			5	Ste. Genevieve	I. C. Tharp, R. McTen 1
			5		Hubbard, Dacomb 1
			40	Devonian	Thompson et al., Franklin 1
			22		O. W. Burroughs, F. Klein 1
			16	Ste. Genevieve	H. J. Brown et al., Thole 1
			16		W. S. Tatrum, Voss 1
			14	Devonian	Benoit et al., Huber 1
			14		L. V. Garnier, A. Tony 1
			20	Ste. Genevieve	B. Fields, S. Prather 1
			10		Yagers & Brown, Steffens 1
			15	Ste. Genevieve	Williams, Bach 1
			15		Fields, Zachary 1
			15	Devonian	Schiermann et al., E. Huelsmann 1
			35		Matches, G. Nettemeyer 1
			35	Devonian	Magnolia Petroleum Co., Woolenweber 1
			32		McKee, 1-apert 1
			32	Devonian	E. F. Jones, Lippert 1
			15		Union Producing Co., Hood 1
			15	Devonian	M. Pray, F. N. Stein 1
			36		DeKalb Syndicate, Hankie 1
			36	Devonian	A. W. Gerson, Hodapp 1
			30		F. Coester, J. Rohr 1
			30	Devonian	Southern Petroleum Co., Deters 1
			30		M. C. Trumbell et al., H. Ackman 1
			30	Devonian	M. C. Trumbell et al., G. Peters 1
			30		W. S. Tatrum, F. Schrage 1
			21	Devonian	Ford, Brink 1
			21		Hughes Petroleum Co., Hohman 1
			21	Devonian	Csborne, H. Alf 1
			21		J. D. McNeil, B. Kraft 2
			61	Devonian	C. E. Baldwin, Middle Lake Club 1
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TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Remarks
		Sec.	Twp.	Rge.				
81	Clinton	24	3 N	2 W	1,300	Bethel	Livesay & Kerwin, L. J. McAdams 1	Dry
82	Clinton	22	1 N	1 W	1,511	Bethel	Sisler et al., Barup 1	Dry
83	Clinton	16	2 N	1 W	1,470	Lower Mississippian	B. E. Martin, Heinzman 1	Dry
84	Clinton	9	2 N	1 W	3,005	Devonian	Martin, Heinzman 2	Dry
85	Clinton	30	2 N	3 W	1,123	Bethel	Ruwaldt et al., H. B. Breifeld 1	Dry
86	Clinton	33	2 N	3 W	1,074	Cypress	Goldschmidt, Holgrave 1	Dry
87	Clinton	34	3 N	1 W	1,431	Bethel	E. Self, F. Ries 1	Dry
88	Clinton	35	3 N	1 W	1,504	Bethel	Jones et al., Hestor 1	Dry
89	Clinton	14	3 N	1 W	1,771	Site, Genevieve	Mudge Oil Co., Jenson 1	Dry
90	Clinton	14	1 N	2 W	1,372	Bethel	National Consumers, Fricke 1	Dry
91	Clinton	12	2 N	5 W	2,170	Devonian	M. C. Trumbell, Dilman Estate 1	Dry
92	Clinton	12	3 N	1 W	1,160	Bethel	Bell Oil Co., Inc., F. Malbaum 1	Dry
93	Clinton	14	1 N	1 W	1,415	Devonian	Sisler—Phoenix 1	Prod.*
94	Clinton	33	2 N	3 W	2,535	Devonian	Snell and Goldschmidt—Schaffer 1	Prod.*
95	Coles	31	12 N	10 E	1,280	Lower Mississippian	Coder, Horsley Heirs 1	Dry
96	Coles	18	12 N	14 W	505	Pennsylvanian	L. Trulock, Fee 2	Dry
97	Coles	35	12 N	7 E	4,908	St. Peter	Carter Oil Co., J. H. Seaman 1	Dry
98	Coles	35	12 N	7 E	2,027	McClosky	Carter Oil Co., J. Seaman 1-A	Dry
99	Coles	10	13 N	7 E	3,226	Devonian	Carter Oil Co., Cobb 1	Dry
100	Coles	10	11 N	7 E	2,123	St. Louis	Carter Oil Co., V. Ohm 1	Dry
101	Coles	36	13 N	9 E	752	Pennsylvanian	Tex Harvey, P. Erwin 1	Dry
102	Coles	26	12 N	7 E	2,107	St. Louis	Carter Oil Co., M. S. Pinell 1	Dry
103	Coles	11	11 N	7 E	2,114	St. Louis	P. H. Bragassa et al., Trodden 1	Dry
104	Crawford	27	6 N	11 W	2,398	Salem	Seger et al., Steward 1	Dry
105	Crawford	14	7 N	14 W	3,504	Devonian	Denver Producers and Refiners, Dennis 1	Dry
106	Crawford	8	7 N	11 W	1,610	Ste. Genevieve	Barren et al., Headly 1	Dry
107	Crawford	17	6 N	10 W	1,592	Ste. Genevieve	Segar, Goodwin 1	Dry
108	Crawford	4	8 N	12 W	1,031	Pennsylvanian	Nelson Bros., First National Bank 1	Dry
109	Crawford	21	6 N	13 W	2,987	Devonian	Babler, Mitchell 1	Dry
110	Cumberland	22	10 N	10 E	710	Pennsylvanian	Ginther, Kempf 1	Dry
111	Dekalb	22	38 N	3 E	520	Galesville	J. E. Milburn et al., Fraas 1	Dry
112	Dewitt	6	20 N	3 E	1,570	Keokuk-Burlington	Waharp Oil & Gas Development Co., Thorpe 1.	Dry
113	Douglas	12	15 N	9 E	615	Kinderhook	I. J. Broadus, Bennett 1	Dry
114	Douglas	33	16 N	9 E	630	Devonian	Taylor Drilling Company, Baldwin 1	Dry
115	Edgar	17	14 N	13 W	1,060	Pennsylvanian	H. C. Hawthorne, M. E. Hathaway 1	Dry
116	Edgar	13	13 N	14 W	440	Pennsylvanian	Ed Pearcey, Sholem 1	Dry

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Remarks
		Sec.	Twp.	Rge.				
161	Fayette	35	9 N	3 E	1,590	Cypress	Allied Oil Company, Buzzard 1	Dry
162	Fayette	35	5 N	3 E	3,570	Devonian	Kingwood Oil Company, Aukamp 1	Dry
163	Fayette	35	6 N	2 E	1,665	Tar Springs	D. V. Lesh, Haynes 1	Dry
164	Fayette	9	8 N	3 E	1,653	Stray	Cooper et al., Hogue 1	Dry
165	Fayette	14	6 N	1 W	2,946	Devonian	Kingwood Oil Company, Dayton 1	Dry
166	Fayette	5	8 N	1 W	1,616	Ste. Genevieve	Cherry and Kidd, Farber 1	Dry
167	Ford	19	24 N	7 E	2,250	Ste. Peter	Nelson, Brown and Erp, Stroh 1	Dry
168	Franklin	24	6 S	1 E	2,860	Ste. Genevieve	F. S. Adkins, Old Ben Coal Company 2	Dry
169	Franklin	14	7 S	3 E	3,102	St. Louis	Adkins, Old Ben Coal "C" 1	Dry
170	Franklin	26	7 S	4 E	3,118	McClosky	Manley Oil Company, Downen 1	Prod.*
171	Franklin	22	7 S	4 E	3,202	Aux Vases	G. Venorsky, L. Auten	Dry
172	Fulton	10	7 N	1 E	815	"Niagara"	Lee Twp. Oil Company, Fredrick 1	Dry
173	Gallatin	4	8 S	8 E	2,846	St. Louis	Kingwood Oil Company, Robinson 1	Dry
174	Gallatin	15	8 S	10 E	241	Pennsylvania	Egyptian Tie and Timber Company, Fee 2	Dry
175	Gallatin	21	7 S	9 E	3,100	St. Louis	Skelly-Exchange et al., Hale 1	Dry
176	Gallatin	7	8 S	9 E	3,060	St. Louis	Exchange Oil Company, Hensling 1	Dry
177	Gallatin	25	8 S	9 E	3,007	Rosicare	Colbeck, Duffy 1	Dry
178	Gallatin	21	7 S	8 E	3,165	St. Louis	Carter Oil Company, O. Vineyard 1R	Dry
179	Gallatin	29	8 S	10 E	2,933	St. Louis	Halbert, Osborne 1	Dry
180	Gallatin	28	7 S	8 E	2,955	St. Louis	Powers et al., West 1	Dry
181	Gallatin	20	7 S	8 E	3,042	St. Louis	Exchange Oil Company, O. Evans 1	Dry
182	Gallatin	33	7 S	8 E	1,722	Palestine	Carter Oil Company, York 1	Prod.*
183	Greene	2	12 N	13 W	750	"Trenton"	G. Brainerd, Bowman 1	Dry
184	Hamilton	16	7 S	7 E	3,345	St. Louis	Carl Robinson, Ghoslon 1	Dry
185	Hamilton	9	7 S	6 E	3,105	Ste. Genevieve	Alma Oil and Gas Co., Fed. Chem. & Coke 2	Dry
186	Hamilton	6	6 S	7 E	2,695	Weier	Kingwood Oil Company, Wilson 1	Prod.*
187	Hamilton	34	5 S	6 E	3,200	McClosky	Kingwood Oil Company, Morris 1	Prod.*
188	Hamilton	14	6 S	6 E	3,358	St. Louis	Kingwood Oil Company, Waring 1	Dry
189	Hamilton	15	6 S	6 E	3,315	Ste. Genevieve	North American Oil Company, Graves 1	Dry
190	Hamilton	13	6 S	6 E	3,494	Ste. Genevieve	Blackstock, Webb 1	Dry
191	Hamilton	23	6 S	5 E	3,257	Ste. Genevieve	Halbert, Lockwood 1	Dry
192	Hamilton	8	4 S	5 E	3,558	St. Louis	Texas Company, N. Adams 1	Dry
193	Hamilton	35	4 S	5 S	3,305	Ste. Genevieve	Exchange Oil Co., General American Ins. Co. 1	Dry
194	Hamilton	26	4 S	7 E	3,513	Ste. Genevieve	Woodriver Development Company, Walker 1	Dry
195	Hamilton	30	6 S	7 E	3,307	Ste. Genevieve	J. G. Buehl, J. H. Porter 1	Dry
196	Hamilton	11	5 S	7 E	3,583	Ste. Genevieve	Kingwood Oil Company, McGuire 1	Dry

197	5 S	7 E	3,257	McClosky	Prod.*
198	Hamilton	3	4 S	McClosky	Prod.*
199	Hancock	23	5 W	McClosky	Dry
200	Henderson	18	5 W	Devonian	Dry
201	Henry	1	4 W	St. Peter	Dry
202	Iroquois	5	3 E	“Trenton”	Dry
203	Jackson	8	12 W	St. Peter	Dry
204	Jackson	6	1 W	J. D. Whitlow, T. M. Gannon 1	Dry
205	Jackson	12	1 W	Barton et al., Hall 1	Dry
206	Jackson	32	4 W	Trans-State Oil Company, Burroughs 1	Dry
207	Jackson	35	3 W	F. R. Dunnett et al., Baum 1	Dry
208	Jasper	24	5 W	Manellin, M. W. Bayinger 1	Dry
209	Jasper	24	5 W	N. C. Trammell, H. Bennett 1	Dry
210	Jasper	33	9 E	Mammoth Producers and Refiners, Johnoff 1	Dry
211	Jasper	17	10 E	Mammoth Producers and Refiners, Johnoff 2	Dry
212	Jasper	17	10 E	Pure Oil Company, Warren Cons. 1	Prod.*
213	Jasper	7	5 W	Pure Oil Company, M. Aldridge 1	Prod.*
214	Jasper	34	10 E	Johnson, E. Mendenhall 1	Prod.*
215	Jasper	18	6 W	Jasper Oil Company, O. Poehler 1	Dry
216	Jasper	16	8 W	Continental Oil Company, G. P. Toland 1	Dry
217	Jasper	20	8 W	Schulman Bros., Diel 1	Dry
218	Jasper	16	6 W	H. & M. Smith, A. Pippen 1	Dry
219	Jasper	17	6 W	Forrest Oil Co., H. Swick and Mendenhall 1	Dry
220	Jasper	5	5 W	Pure Oil Company, Bergbower 1	Prod.*
221	Jefferson	28	2 S	Connor and Arnold, Swick 1	Prod.*
222	Jefferson	36	2 S	Scheck, Payne Heirs 1	Prod.*
223	Jefferson	10	3 S	Beavers et al., Eichman 3	Dry
224	Jefferson	10	1 S	Gibson and Jennings, Charles Hall 1	Dry
225	Jefferson	36	1 E	Magnolia Petroleum Company, Lettie Jones 1	Dry
226	Jefferson	27	1 S	Hughes Petroleum Corporation, Self 1	Dry
227	Jefferson	13	4 S	Gibson and Jennings, C. Hall 2	Dry
228	Jefferson	16	2 E	Carter Oil Company, Statley-Percell 1	Dry
229	Jefferson	23	3 S	Tex Harvey Oil Company, Green 1	Dry
230	Jefferson	30	4 S	Tex Harvey Oil Company, Jefferson Coal Corporation 1	Dry
231	Jefferson	9	4 S	Cairo Union, Chaney 1	Dry
232	Jefferson	9	1 S	R. C. Young, Whirlington 1	Dry
233	Jefferson	25	2 S	Tex Harvey Oil Company, Consolidated Coal Co. 1	Dry
234	Jersey	32	7 W	M. Siegel, Roper 1	Dry
235	Jersey	7	7 W	Obering and Phillips, Howe 1	Prod.*
236	Jersey	22	8 W	A. W. Gerson, Knight 1	Dry
237	Johnson	30	11 S	T. W. Eagleton, Shafer 1	Dry
238	Knox	20	10 N	Hughes Petroleum Company, Kallall 1	Dry
				Tunnel Hill, J. Boner 1	Dry
				C. W. Lomax, Nelson 1	Dry

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
239	Lawrence	30	4 N	10	10 W	1,754	St. Louis	Dry
240	Lawrence	10	4 N	11 W	1,701	St. Genevieve	Dry	
241	Lawrence	20	5 N	12 W	2,577	McClosky	Dry	
242	Lawrence	27	5 N	11 W	3,262	Devonian	Dry	
243	Lawrence	30	5 N	13 W	2,841	St. Louis	Dry	
244	Lawrence	5	2 N	12 W	2,255	St. Genevieve	Dry	
245	Lawrence	13	2 N	11 W	1,077	Buchanan	Dry	
246	Lawrence	28	4 N	11 W	1,964	St. Genevieve	Dry	
247	Lawrence	27	2 N	13 W	2,721	McClosky	Dry	
248	Logan	11	20 N	2 W	1,535	Silurian	Dry	
249	McDonough	18	6 N	4 W	740	Maquoketa	Dry	
250	McDonough	30	4 N	3 W	915	St. Peter	Dry	
251	McDonough	8	6 N	3 W	628	Niagaran	Dry	
252	McDonough	4	5 N	4 W	801	"Trenton"	Dry	
253	McDonough	29	5 N	4 W	630	"Niagaran"	Dry	
254	McDonough	10	4 N	4 W	530	"Niagaran"	Dry	
255	Macon	28	17 N	3 E	2,248	Silurian	Dry	
256	Macon	11	16 N	3 E	2,360	Devonian	Dry	
257	Macon	14	14 N	2 E	1,636	St. Louis	Dry	
258	Macon	17	15 N	2 E	2,333	Devonian	Dry	
259	Macoupin	1	10 N	6 W	720	Pennsylvanian	Dry	
260	Macoupin	2	10 N	6 W	740	Pennsylvanian	Dry	
261	Macoupin	2	10 N	6 W	633	Pennsylvanian	Dry	
262	Macoupin	10	10 N	6 W	621	Pennsylvanian	Dry	
263	Macoupin	12	10 N	6 W	675	Pennsylvanian	Dry	
264	Macoupin	35	11 N	6 W	625	Pennsylvanian	Dry	
265	Macoupin	7	9 N	7 W	1,380	Devonian	Dry	
266	Macoupin	22	8 N	8 W	505	Pennsylvanian	Dry	
267	Macoupin	35	9 N	8 W	1,607	Devonian	Dry	
268	Madison	1	5 N	6 W	1,880	Devonian	Dry	
269	Madison	22	4 N	5 W	3,270	St. Peter	Dry	
270	Madison	30	6 N	5 W	1,917	Devonian	Dry	
271	Madison	7	3 N	8 W	1,276	Devonian	Dry	
272	Madison	5	5 N	5 W	1,981	Devonian	Dry	
273	Madison	17	3 N	5 W	2,877	Platteville	Dry	

Kentucky Natural Gas, Crews 1	.....	Dry
J. W. Cannon et al., W. Z. Zaner 1	.....	Dry
Whisenant and Trenchard, J. Wagner 1	.....	Dry
Bell Brothers, Wampler 1	.....	Dry
D. Miller, J. Stout 1	.....	Dry
Schmidt et al., C. E. Martin 1	.....	Dry
H. J. Bowman, Shaw, Gray, Lahr 2	.....	Dry
W. Payne, Monjar 1	.....	Dry
United Drilling and Producing Company, Fornhoff 1	.....	Prod.*
Bay Oil Company, G. M. Lake 1	.....	Dry
R. G. Gridland, S. E. Roberts 1	.....	Dry
Ellis Jones, Foster 1	.....	Dry
Bruninger, Fee 1	.....	Dry
W. Vette, McClure 1	.....	Dry
C. B. Talbot, G. W. Foley 1	.....	Dry
Vette, Post 1	.....	Dry
Eureka Oil Corporation, W. F. Rhodes 1	.....	Dry
S. D. Jarvis, S. Veech 1	.....	Dry
Gulf Refining Company, E. W. Hight 1	.....	Dry
J. H. Williams, Carter 1	.....	Dry
Miller, Crabtree 1	.....	Dry
Adams et al., J. E. Cole 1	.....	Dry
Adams and Leagers, J. A. Cole 1	.....	Dry
Adams and Leagers, Arter 1	.....	Dry
Lee et al., Banning 1	.....	Dry
Peyton et al., Friend 1	.....	Dry
O. Z. Smith et al., Kline 1	.....	Dry
Williams et al., Morrison 1	.....	Dry
W. A. Steward, Carlinville National Bank 1	.....	Dry
J. R. Wilson, R. F. Dauderman 1	.....	Dry
Jennings Bros., Mossman 1	.....	Dry
R. Jones et al., Farly 1	.....	Dry
Vorbett, M., Keller 1	.....	Dry
Cherry and Kidd, Jeef 1	.....	Dry
E. J. Poeseke, J. O. Riegel 1	.....	Dry

274	Madison	23	6 W	1,910	Devonian	2 F	2,165	Baldwin, Daiber 1	Carter Oil Company, Mona Milton 1	Dry
275	Marion	33	1 N	2 F	McCllosky	3,109	E. F. Jones, Kistala 1			Dry
276	Marion	9	2 N	1 F	Devonian	2 F	A. J. Delevo, Sherman 1			Dry
277	Marion	13	2 N	2 F	Pennsylvanian	895	Inland Drilling Company, Moser 1			Dry
278	Marion	27	2 N	1 F	1,150	Menard	Texas Company, R. N. Davis 1			Dry
279	Marion	21	1 N	2 F	2,655	Salem	Jones and Adams, Adams 1			Dry
280	Marion	7	3 N	1 F	1,501	Bethel	Johnson, Nichols 1			Dry
281	Marion	19	3 N	1 F	1,466	Bethel				Dry
282	Marion	2	3 N	2 F	2,208	Ste. Genevieve				Dry
283	Marion	17	1 N	2 F	2,144	Aux Vases				Dry
284	Marion	28	1 N	2 F	2,313	St. Louis	Lachtrup, Fyke Cemetery 1			Dry
285	Marion	15	3 N	2 F	2,315	Carter Oil Company, C. E. Prather 1				Dry
286	Marion	20	3 N	2 F	3,823	Ste. Genevieve	Pray, Thurman 1			Dry
287	Marion	7	1 N	1 F	1,150	Devonian	R. E. Angie et al, Zollar 1			Dry
288	Marion	7	1 N	1 F	1,010	Pennsylvanian	Etheridge, Dealer 1			Dry
289	Marion	25	2 N	1 F	3,652	Devonian	Petrol Oil Corporation, Easterday 1			Dry
290	Marion	35	2 N	1 F	3,620	Devonian	Hensley, Fox 1			Dry
291	Marion	19	2 N	2 F	3,555	Devonian	A. L. Miller et al, West Estate 1			Dry
292	Marion	31	4 N	4 F	2,481	Ste. Genevieve	Magnolia Petroleum Company, D. McIntosh 1			Dry
293	Marion	20	4 N	1 F	1,895	Renault	Stewart, Whittenburg 1			Dry
294	Marion	27	2 N	1 F	906	Pennsylvanian	Jones and Jones, Ross 1			Dry
295	Marion	31	2 N	1 F	1,515	Bethel	Sheen et al, Geary 1			Dry
296	Marion	4	3 N	1 F	3,194	Devonian	Henshaw Bros, Walker Estate 1			Dry
297	Marion	19	3 N	3 F	3,957	Devonian	Ponting, Rohrer 1			Dry
298	Marion	20	4 N	2 F	2,130	Devonian	Kingwood Oil Company, H. D. Spencer 1			Dry
299	Marion	32	1 N	1 F	2,185	Ste. Genevieve	H & K Drilling Company, Neilson 1-A			Dry
300	Marion	31	2 N	1 F	1,200	Chester	Johnson et al, Johnson 2			Dry
301	Marion	32	2 N	1 F	1,593	Bethel	P. J. Jones, Fyke 1			Dry
302	Marion	28	3 N	1 F	1,785	Devonian	Creeds, Kerwin 1			Dry
303	Marion	17	4 N	1 F	2,324	Ste. Genevieve	P. Doran, Meador 1			Dry
304	Marion	3	2 N	2 F	2,296	St. Louis	Texas Company, F. Donahue 1			Dry
305	Marion	5	2 N	2 F	2,499	St. Louis	Clevetex Producing Company, E. Squibb 1			Dry
306	Marion	29	3 N	3 F	2,237	Ste. Genevieve	Kingwood Oil Company, Lowe 1			Dry
307	Marion	18	4 N	3 F	2,235	McCllosky	Texas Company—Chance 1			Dry
308	Marion	4	2 N	2 F	3,030	Devonian	Kohle et al, C. W. Harwick 1			Dry
309	Massac	23	14 S	3 F	2,335	Devonian	Marshall Drilling Company, McGhee 1			Dry
310	Massac	3	16 S	5 F	1,063	Burlington	William Johnson, T. Johnson 1			Dry
311	Monroe	26	19 N	5 W	1,063	Burlington	O. O. Borden, Schuster 1			Dry
312	Monroe	13	3 S	8 W	1,800	“Trenton”	Morris et al, Gummershiner 1			Dry
313	Monroe	31	1 N	10 W	832	“Trenton”	Davis and Brand, C. J. Krause 1			Dry
314	Monroe	30	3 S	7	600	Lower Mississippian	Dorsey Oil Company, Rose 1			Dry
315	Monroe	15	1 S	10 W	860	“Trenton”	Henry Kyatt, Jacobs 1			Dry
316	Monroe	25	4 S	10 W	780	“Trenton”	Hughes Petroleum Corp., E. Fenaiia 1			Dry
317	Monroe	15	3 S	11 W	1,100	Lower Ordovician	Hoffer, Boyer 2			Dry
		19	1 S	10 W	2,270	Cambrian				Dry

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
318	Montgomery	30	10 N	4 W	632	Pennsylvanian	Henderson Bros., Ostermier 1.....	Prod.*
319	Montgomery	19	10 N	4 W	1,005	Mississippian.....	Henderson, Eaglehoff 1.....	Dry
320	Montgomery	19	10 N	4 W	650	Pennsylvanian.....	O. W. Burroughs, Eaglehoff 1.....	Dry
321	Montgomery	1	10 N	5 W	2,523	“Trenton”.....	Gulf, C. R. Brandon 1.....	Dry
322	Montgomery	3	8 N	5 W	667	Portsville.....	Young et al., Yowell 1.....	Dry
323	Montgomery	15	8 N	4 W	613	Pennsylvanian.....	Southern and Petty, Sawyer 1.....	Dry
324	Montgomery	13	9 N	4 W	2,160	Devonian.....	Tof, Breitenbach 1.....	Dry
325	Montgomery	30	11 N	5 W	665	Pottsville.....	Dole, W. Lewis 1.....	Dry
326	Montgomery	31	11 N	5 W	944	St. Louis.....	Burroughs et al., Kilton 1.....	Dry
327	Montgomery	31	11 N	5 W	624	Pottsville.....	H. Randall et al., Street 1.....	Dry
328	Montgomery	9	9 N	5 W	665	Pennsylvanian.....	Brown, Finley 1.....	Dry
329	Montgomery	30	10 N	4 W	552	Pennsylvanian.....	Henderson Bros., Arling 1.....	Dry
330	Montgomery	32	11 N	5 W	665	Pottsville.....	Grant et al., Wood 1.....	Dry
331	Montgomery	6	10 N	5 W	693	Pennsylvanian.....	Miller, F. Allord 1.....	Dry
332	Montgomery	30	11 N	5 W	650	Pennsylvanian.....	R. Brown, Witt 1.....	Dry
333	Montgomery	20	8 N	5 W	2,577	“Trenton”.....	Seaboard Oil Company, O. Lay 1.....	Dry
334	Montgomery	24	10 N	5 W	645	Pottsville.....	Dorion Edge Oil Company, Taman 1.....	Dry
335	Montgomery	29	11 N	5 W	555	Pottsville.....	Algona Oil Company, W. Waggoner 2.....	Dry
336	Montgomery	29	11 N	5 W	635	Pennsylvanian.....	Cunningham, J. Waggoner 1.....	Dry
337	Montgomery	7	7 N	2 W	2,350	Devonian.....	H. W. Green, Blackburn 1.....	Dry
338	Montgomery	11	7 N	4 W	907	Bethel.....	L. C. Kessler, A. Nowak “A” 1.....	Dry
339	Montgomery	11	7 N	4 W	1,202	See, Genieve.....	Talifero et al., A. Nowak 1.....	Dry
340	Montgomery	3	8 N	5 W	774	Pennsylvanian.....	E. Soloman, Carroll 1.....	Dry
341	Montgomery	30	8 N	5 W	865	Site, Genieve.....	W. L. Topf, Nieman 1.....	Dry
342	Montgomery	12	10 N	5 W	598	Pennsylvanian.....	Gulf Refining Company, L. Moore 1.....	Prod.*
343	Montgomery	24	10 N	5 W	688	Pennsylvanian.....	Scherrer, Johnson 1.....	Dry
344	Montgomery	16	12 N	5 W	645	Pottsville.....	J. E. Hood, Dambacher 1.....	Dry
345	Montgomery	4	8 N	2 W	1,254	Site, Genieve.....	National Petroleum Company, Kyle 1.....	Dry
346	Montgomery	24	8 N	4 W	950	Bethel.....	Swords and Thompson, Jett 1.....	Dry
347	Montgomery	19	9 N	3 W	1,021	Chester.....	W. L. Topf, Fisher 1.....	Dry
348	Montgomery	25	10 N	5 W	664	Pennsylvanian.....	Scherrer et al., Lyon 1.....	Dry
349	Peoria	17	8 N	6 E	1,011	Devonian.....	Blue Bell Oil Company, Kyle 1.....	Dry
350	Perry	15	4 S	3 W	1,671	McClosky.....	Magnolia Petroleum Company, H. Bruns 1.....	Dry
351	Perry	4	5 S	1 W	3,185	Devonian.....	Stanolind, Kinney 1.....	Dry
352	Perry	13	5 S	1 W	2,942	Devonian.....	Blankenship, City Park 1.....	Dry
353	Perry	14	5 S	3 W	1,722	Fredonia.....	Robinson, Gruner 1.....	Dry

354	Perry	13	2 W	Bethel	1,303	Thompson Drilling Company, Prusacki 1
355	Perry	15	4 S	Bethel	1,325	G. H. Blankenship, Bathon Estate 1
356	Perry	24	4 S	Bethel	1,130	Dry
357	Perry	24	4 S	Bethel	1,381	Dry
358	Pike	11	7 S	Bethel	750	Dry
359	Pike	35	4 S	St. Peter	231	Dry
360	Pike	35	4 S	"Trenton"	Maquoketa	Dry
361	Pike	21	5 S	"Trenton"	West Pike Petroleum Company, O. H. Reinhardt 1	Dry
362	Pope	19	11 S	Glen Dean	Wooters et al, Goron 1	Dry
363	Pope	10	11 S	Ste. Genevieve	Gardenheir and Smith, Peoples 1	Dry
364	Randolph	2	7 S	Aux Vases	Ohio Oil Company, General American Insurance Co. 1	Dry
365	Randolph	2	7 S	Chester	G & I. Oil Company, Schultz 1	Dry
366	Randolph	11	5 S	Cypress	G & I. Oil Company, Schultz 2	Dry
367	Randolph	15	5 S	Chester	Egyptian Tie and Timber Co., V. Peard 1	Dry
368	Randolph	25	7 S	1,024	Harman, J. Lauber 1	Dry
369	Randolph	16	7 S	1,024	Christian and Wagner, Waltemater 1	Dry
370	Randolph	17	5 S	"Trenton"	R. H. Anderson et al, J. B. Cassout 1	Dry
371	Randolph	26	5 S	2,365	Rand Development Company, Grant 1	Dry
372	Richland	26	2 N	2,053	F. Oswald et al, J. C. Fullerton 1	Dry
373	Richland	3	3 N	3,326	Robinson et al, A. Jenner 1	Dry
374	Richland	1	2 N	2,985	Duncan, Davenport 1	Dry
375	Richland	21	2 N	3,398	Illinois Producers Corporation, W. W. Spotswood 1	Dry
376	Richland	26	4 N	2,781	C. B. Hill, J. Wood 1	Dry
				3,130	Wayne Development Company, A. F. Wattleworth 1-B	Dry
377	St. Clair	28	2 S	6 W	2,576	L. A. Painter, H. C. Petrie 1
378	St. Clair	10	3 S	7 W	1,704	Joe Longoria et al, J. Scholler 1
379	St. Clair	31	3 S	6 W	1,415	Morrison, H. A. Smith 1
380	St. Clair	24	1 N	10 W	764	Blom and Jeffers Oil Company, Hy Harris 1
381	St. Clair	34	2 N	9 W	1,620	Harris et al, City Park 1
382	St. Clair	28	1 N	10 W	727	D. Rose, Ctron 1
383	St. Clair	33	1 N	10 W	815	R. A. Roth, Mense 1
384	Saline	1	8 S	7 E	2,919	Simon Henry et al, Seten 1
385	Saline	18	8 S	6 E	3,142	J. Rowe et al, Summers 1
386	Saline	8	10 S	5 E	4,624	C. V. & F. W. Parker, Feed 1
387	Saline	15	10 S	6 E	1,795	Hardinsburg
388	Saline	28	8 S	7 E	2,219	Tar Springs
389	Schuyler	35	3 N	1 W	831	Maquoketa
390	Schuyler	2	8 N	3 W	676	"Niagaran"
391	Schuyler	21	3 N	4 W	990	St. Peter
392	Schuyler	6	3 N	3 W	587	"Niagaran"
393	Schuyler	9	3 N	2 W	981	"Trenton"

TABLE 7.—(Continued)

No.	County	Sec.	Twp.	Location	Rge.	Total depth (Feet)	Deepest horizon tested	Company and farm name	Remarks
394	Schuylerville	22	3 N	2 W	738	"Niagaran"	O. A. Reed, S. F. Horney 1		Dry
395	Schuylerville	15	3 N	3 W	604	"Niagaran"	M. Siegel, J. H. Hite 1		Dry
396	Scott	17	10 N	12 W	935	Decorah	Erie Drilling Company, Neate 1		Dry
397	Shelby	18	11 N	6 E	2,049	Bethel	Max Pray et al, Russell Estate 1		Dry
398	Shelby	32	11 N	2 E	3,080	Devonian	Seaboard & Wiggins, Miller 1		Dry
399	Shelby	20	14 N	2 E	1,979	Lower Mississippian	Rex Development Company, O'Dell 1		Dry
400	Shelby	22	10 N	4 E	2,010	Ste. Genevieve	Paul J. Doran, F. G. Compton 1		Dry
401	Shelby	36	12 N	5 E	1,465	Aux Vases	Baugher, Anderson 1		Dry
402	Shelby	14	9 N	4 E	2,005	Bethel	Goad, Goad 1		Dry
403	Shelby	33	10 N	4 E	2,005	Aux Vases	P. Doran, Yake-Gallagher 1		Dry
404	Shelby	23	10 N	5 E	1,926	Paint Creek	Doran et al, Fritz 1		Dry
405	Shelby	36	13 N	2 E	1,035	Pennsylvanian	L. Trulock, H. Lantz 1		Dry
406	Tazewell	15	22 N	5 W	440		W. E. Adams, Mullinex 1	(3)	Dry
407	Tazewell	28	24 N	2 W	1,235	Silurian	H. V. House, W. H. Greening 1		Dry
408	Wabash	11	1 N	12 W	2,232	McClosey	Pollock, Whiteside 1		Dry
409	Wabash	31	1 N	12 W	2,143	Cypress	D & H Drilling Company, Trapp Bros. 1		Dry
410	Wabash	24	1 N	13 W	2,038	Tar Springs	C. A. Carter et al, H. A. Steckly 1		Dry
411	Wabash	6	1 N	12 W	2,434	McClosey	C. Evans, Trapp 1		Dry
412	Wabash	17	1 N	12 W	2,050	Weiler	Delta Drilling Company, Dr. Utter 1		Prod.*
413	Wabash	16	2 S	13 W	2,448	Weiler	J. R. Mitchell et al, C. M. Batson 1		Dry
414	Wabash	17	2 S	13 W	2,843	McClosey	Magnolia Petroleum Company, E. Fifer 1		Dry
415	Wabash	4	1 N	13 W	2,743	McClosey	Riddle et al, Seibert 1		Prod.*
416	Wabash	5	1 N	13 W	2,787	Ste. Genevieve	Central States Oil Company, C. B. Brines 1		Dry
417	Wabash	4	2 S	13 W	2,494	Weiler	Mabee Drilling Company, Bump 6		Dry
418	Wabash	16	1 S	12 W	2,053	Weiler	O'Meara, Couch 1		Dry
419	Wabash	14	2 S	13 W	2,805	Ste. Genevieve	Lindas, Rose 1		Dry
420	Wabash	3	3 S	14 W	2,589	Weiler	R. Ryan et al, Sigert 1		Dry
421	Wabash	2	1 N	12 W	1,950	Weiler	Pollock, Cisel 1		Dry
422	Wabash	7	1 N	12 W	1,556	Pennsylvanian	Hartman, Litherland 1		Dry
423	Wabash	27	1 S	13 W	2,626	McClosey	B. Lambert, Siebler 1		Prod.*
424	Wabash	7	1 N	12 W	1,600	Pennsylvanian	Snowden, Litherland 1		Dry
425	Wabash	28	1 S	13 W	2,758	Ste. Genevieve	D. H. Whadley, Fearchiley 1		Dry
426	Wabash	9	1 N	13 W	2,749	Ste. Genevieve	Hayes et al, Gimpel 1		Dry
427	Wabash	7	1 N	12 W	1,550	Pennsylvanian	R. B. Martin, Pixley 1		Dry
428	Wabash	35	2 N	12 W	1,450	Pennsylvanian	Leighly et al, W. Trimble 1		Dry
429	Wabash	7	2 S	13 W	2,895	Ste. Genevieve	Ryan Oil Company, Schafer Estate 1		Dry

430	Wabash	11	3	Ste. Genevieve	2,880
431	Wabash	36	1 N	Ste. Genevieve	2,580
432	Wabash	11	2 S	Ste. Genevieve	2,750
433	Washington	25	3 S	Glen Dean	943
434	Washington	3	2 S	Paint Creek	1,642
435	Washington	32	3 S	McClosky	1,652
436	Washington	23	1 S	Bethel	1,538
437	Washington	9	2 S	Devonian	3,152
438	Washington	33	2 S	Fredonia	1,534
439	Washington	14	1 S	Bethel	1,635
440	Washington	23	2 S	Ste. Genevieve	1,861
441	Washington	13	1 S	Bethel	1,547
442	Washington	22	1 S	Devonian	3,199
443	Washington	27	1 S	Bethel	1,654
444	Washington	28	2 S	Bethel	1,326
445	Washington	18	3 S	Ste. Genevieve	1,649
446	Washington	30	3 S	St. Louis	1,220
447	Washington	27	2 S	Ste. Genevieve	1,357
448	Washington	19	3 S	Cypress	1,032
449	Washington	19	3 S	Bethel	1,010
450	Washington	5	2 S	Bethel	1,665
451	Washington	31	3 S	Weiler	1,926
452	Washington	33	3 S	Ste. Genevieve	1,671
453	Washington	29	3 S	Bethel	1,186
454	Washington	29	3 S	Ste. Genevieve	1,155
455	Wayne	21	1 S	St. Louis	3,487
456	Wayne	24	1 S	Menard—Vienna	2,252
457	Wayne	24	2 S	McClosky	3,434
458	Wayne	31	6 E	McClosky	3,300
459	Wayne	12	3 S	Ste. Genevieve	3,413
460	Wayne	7	1 N	Ste. Genevieve	3,105
461	Wayne	1	3 S	Ste. Genevieve	3,498
462	Wayne	22	2 N	Ste. Genevieve	3,151
463	Wayne	22	9 E	Ste. Genevieve	3,302
464	Wayne	9	3 S	Ste. Genevieve	3,427
465	Wayne	3	1 S	McClosky	3,300
466	Wayne	3	1 S	Ste. Genevieve	3,312
467	Wayne	1	1 N	McClosky	3,036
468	Wayne	20	2 N	Ste. Genevieve	3,084
469	Wayne	24	9 E	Ste. Genevieve	3,366
470	Wayne	2	1 N	Ste. Genevieve	3,084
471	Wayne	25	2 N	Ste. Genevieve	3,277
472	Wayne	29	1 S	Ste. Genevieve	3,087
473	Wayne	3	2 S	Ste. Genevieve	3,373
N. V. Duncan, Schroeder 1					
Hayes et al., Zimmerman 1					
D & H Drilling Company, L. F. Beall 3					
H. Hubbard, A. Carson 1					
Chicago Syndicate, A. Harkie 1					
Magnolia Petroleum Company, Bonczyk 1					
Gulf Refining Company, Buhl 1					
Ohio Oil Company, E. Buchner 1					
Gardner and Woods, Harre 1					
Esperanza, Baldwin 1					
Kyatt, Smith 1					
H. C. Gass, Kasten 1					
Mudge, E. Mitchell 1					
Pitchford et al., W. J. Hafer 1					
Gardner Petroleum Company, Frederking 1					
Williams, S. Pijut 1					
Hubbard, Hunleth 1					
Watt, Kentenhouse 1					
Blalack et al., Keifer 1					
H. Hubbard, Hunleth 2					
Bartron et al., Edmiston 1					
L. Lillie, Noble 1					
J. Pugh, Wynn 1					
DeKalb et al., Hundlith 3					
W. C. McBride, Inc., H. Frieman 1					
J. Russell, Thimony 1					
A. J. Albright, Collins 1					
South State Dev. Co., William Grubb 1					
Ozer et al., Accola 1					
H. Randall, Horton 1					
Pure Oil Company, L. Miller 1-A					
Nelson and Strawser, Vaughn 1					
Jarvis Bros. et al., F. Hazel Estate 1					
Jarvis et al., Hazel 1					
Southern Petroleum Corporation, Vaughn 1					
Lessing Alch, Conrad Dickey 1					
Pure Oil Company, G. Burton 1					
Prod. * Pure Oil Company, R. Macklin 1					
N. V. Duncan, A. Skelton 1					
Powell, Moore 1					
J. W. Sanders, R. C. Cooper 1					
Chebigney, Cook 1					
C. Robinson, Williams 1					
McCoy and Henry, Forth 1					

TABLE 7.—(Concluded)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Remarks
		Sec.	Twp.	Rge.				
474	Wayne	4	3 S	8 E	3,496	McClosky	M.I.O.U. Corporation, H. French 1	Prod.*
475	Wayne	4	3 S	8 E	3,569	Ste. Genevieve	Ichenhauser and Brentano, C. Shreves 1	Dry
476	Wayne	17	3 S	8 E	3,522	Ste. Genevieve	Lavender and French, T. G. Puckett 1	Dry
477	Wayne	2	2 S	7 E	3,340	Ste. Genevieve	H. H. Weinert—C. Bright 1	Prod.*
478	White	28	3 S	9 E	3,505	McClosky	Bishop, Harrington, Bush et al, G. Griffin 1	Prod.*
479	White	31	5 S	10 E	3,195	St. Louis	R. W. Slemaker, Hannah 1	Dry
480	White	27	6 S	9 E	2,764	Waltersburg	Bates and Lichlyter, Aud 1	Dry
481	White	2	7 S	9 E	3,250	St. Louis	Kingwood Oil Company, Bayley 1	Dry
482	White	36	4 S	10 E	3,095	Ste. Genevieve	Phillips, Cleveland 1	Dry
483	White	14	6 S	10 E	3,131	Ste. Genevieve	Carl Robinson, Randolph Heirs 1	Dry
484	White	18	6 S	10 E	1,585	Ste. Genevieve	F. M. Blair, McCarthy 1	Dry
485	White	33	3 S	9 E	3,519	Pennsylvanian	Cooke Oil Company, G. Griffin 1	Dry
486	White	28	5 S	8 E	3,482	St. Louis	C. D. Neff et al, Buss Heirs 1	Dry
487	White	35	3 S	9 E	3,520	St. Louis	L. Horton et al, Schoemann 1	Dry
488	White	2	4 S	9 E	3,375	Ste. Genevieve	Sun Oil Company, C. Brown 1	Prod.*
489	White	31	4 S	11 E	5,349	Devonian	Phillips Petroleum Company, Garr 1	Dry
490	White	22	4 S	14 W	3,005	Ste. Genevieve	P. Miller, Ford Heirs 1	Dry
491	White	35	5 S	9 E	2,043	Chester	Y. Rogers, Holderbee Estate 1	Dry
492	White	35	6 S	9 E	3,098	St. Louis	Carter, W. L. Questell 1	Dry
493	White	3	4 S	9 E	3,500	Ste. Genevieve	Ladas, Kershaw 1	Dry
494	White	34	6 S	10 E	3,095	Ste. Genevieve	Jarvis Bros., A. Ackerman 1	Dry
495	White	13	6 S	10 E	2,960	Ste. Genevieve	J. B. Flemming, Holderman 1	Dry
496	White	2	7 S	10 E	2,993	St. Louis	Eason Oil Company, Pearce 1	Dry
497	White	30	6 S	9 E	3,170	Ste. Genevieve	Bay Oil Company, E. Holmes 1	Dry
498	White	8	7 S	10 E	3,075	St. Louis	Siesinger et al, Miller 1	Dry
499	White	21	3 S	8 E	3,339	Ste. Genevieve	Orient L. Foraker Morgan 1	Dry
500	White	5	5 S	9 E	3,375	Ste. Genevieve	W. M. Angle, C. O. Myers 1	Dry
501	White	22	3 S	10 E	3,283	St. Louis	Morrison and Noah, S. Kershaw 1	Dry
502	White	9	4 S	8 E	3,506	Ste. Genevieve	Cobb and Briscoe, J. Beer 1	Dry
503	White	11	5 S	9 E	3,465	Ste. Genevieve	Robinson, Taylor 1	Dry
504	White	30	3 S	9 E	3,602	Ste. Genevieve	C. A. French et al, Mae Roy 1	Dry
505	White	28	3 S	14 W	2,617	Weiler	Patton and Carey, Reeves Heirs 1	Prod.*
506	White	26	3 S	9 E	3,467	McClosky	Mazda and Palmer, L. Storms 1	Prod.*
507	White	7	5 S	14 W	2,911	Aux Vases	O. Borden, I. McCallister 1	Prod.*
508	White	32	6 S	9 E	3,154	Ste. Genevieve	J. T. Bradley, C. Randolph 1	Dry
	White	29	3 S	9 E	3,486	McClosky	Hayes and Goad—Goad 1	Prod.*

510	White	25	6 S	8 E	2,528	Hardinsburg
511	White	26	4 S	8 E	3,077	McClosky
512	White	27	4 S	14 W	2,296	Tar Springs
513	White	36	4 S	10 E	2,971	Aux Vases
514	White	13	7 S	8 E	2,248	Tar Springs
515	White	11	7 S	9 E	1,516	Pennsylvanian
516	White	19	8 S	10 E	2,742	McClosky
517	Williamson	2	10 S	1 E	2,332	St. Louis
518	Williamson	4	9 S	2 E	1,630	Cypress
519	Williamson	9	9 S	2 E	2,561	Ste. Genevieve
520	Williamson	1	10 S	1 E	2,045	Ste. Genevieve
521	Woodford	1	10 S	1 E	2,020	Nation Oil Company, Coleman 1
522	Woodford	31	26 N	1 E	2,175	Morton Oil and Gas Company, Moreland 1
523	Woodford	18	25 N	1 E	1,770	Morton Oil and Gas, J. E. Rocke 1

* Discovery well of new pool or extension; see table.

1 Extension.

2 3,000,000 cubic feet gas.

3 Junked Holes.

Prod.*	J. W. Carter et al—Johnson 1	Prod.*	Prod.*
	Mercer Bros.—Chapman 1		Superior—Fitton 2
			Neff—Garner 1
			Kingwood—Martin 1
			Carter Oil Company—Dagley 1
			Colbeck—Egyptian T. and T. Co. 1
			Carterville Oil and Gas Co., M. B. Culp 1
			J. Blalack et al, W. P. Hill 1
			Blalack, Smothers 1
			Carterville Oil and Gas Company, L. Cannon 1
			Nation Oil Company, Coleman 1
			Morton Oil and Gas Company, Moreland 1
			Morton Oil and Gas, J. E. Rocke 1

